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SHEET

XL-6412

NOTE: ALL SHEET REFERENCES, FIRST NOS. OF STRUCTURE CODE DESIGNATIONS AND MATCH LINE SHEET REFERENCES, ETC., THROUGHOUT THE PLANS, REFER TO THE ENTRY IN THE PLAN REFERENCE NUMBER BOX.

FILE NAME	G:\EngIneerIng\PE201\Projects	SISR 17\23B013, SR	17 Soap Lake	to Lake Lenore	Caves- Unstable	Slopes	s\Ad\CA	ADD\XL6	412_CAD Files\02 Plan Shee	tts\XL6412_PS/_GN.dgn
TIME	4:00:57 PM						REGION NO.	STATE	FED.AID PROJ.NO.	1/ .
DATE	3/9/2023						10	WASH	0017(053)	Wall Lewes
PLOTTED BY	LedbetB						10	WASH	( ,	Mart 1
DESIGNED BY	A. SCHULTZ							IUMBER		Dan Lewis
ENTERED BY	K. CRONENWETT						23B	8013		
CHECKED BY	K. WISEMAN						CONTR	RACT NO.	LOCATION NO.	Mar 15, 2023
PROJ. ENGR.	M. CASTILLO								YI -6/12	AGENCY APPROVAL

REVISION

REGIONAL ADM. D. BIERSCHBACH

DATE BY

$\square$	PERTEET
	123 OHME GARDEN ROAD, SUITE 8 WENATCHEE, WA 98801 800.615.9900

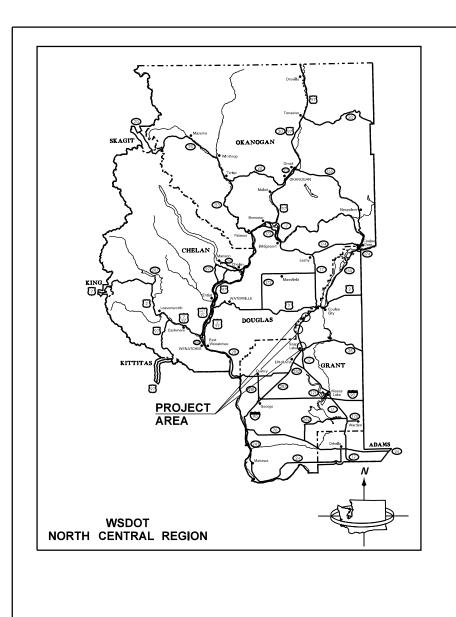


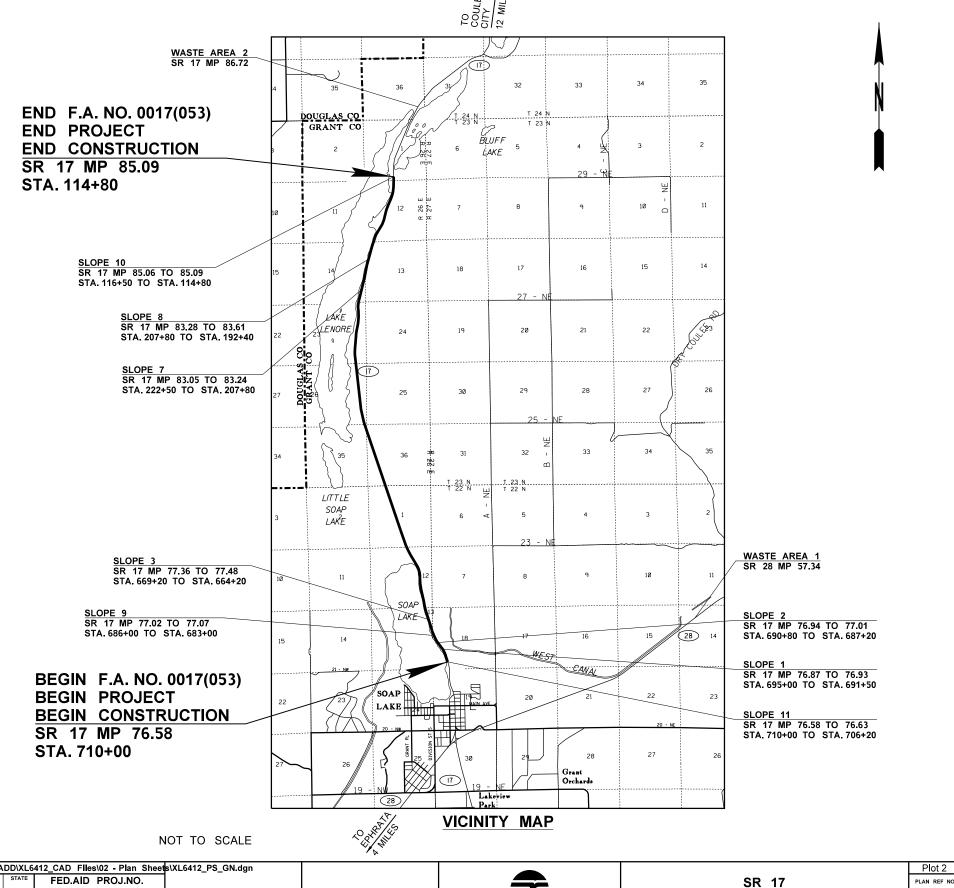
SR 17										
SOAP	LAKE	то	LAKE	<b>LENORE</b>	CAVES					
	UN	ISTA	BLE S	LOPES						

**INDEX** 

Plot 2 PLAN REF. NO. IN1

65 SHEETS





G:\Engineering\PE201\Projects\SR 17\23B013, SR 17 Soap Lake to Lake Lenore Caves- Unstable Slopes\Ad\CADD\XL6412\_CAD Files\02 - Plan Sheets\XL6412\_PS\_GN.dgn FILE NAME TIME 4:00:57 PM DATE 3/9/2023 10 WASH PLOTTED BY LedbetB JOB NUMBER DESIGNED BY A. SCHULTZ 23B013 K. CRONENWETT ENTERED BY CHECKED BY K. WISEMAN LOCATION NO. PROJ. ENGR. M. CASTILLO XL-6412 DATE DATE BY REGIONAL ADM. D. BIERSCHBACH REVISION

PERTEET

123 OHME GARDEN ROAD, SUITE 8
WENATCHEE, WA 98801
800.615.9900

Washington State
Department of Transportation

SR 17
SOAP LAKE TO LAKE LENORE CAVES
UNSTABLE SLOPES
VICINITY MAP

VM1

65 SHEETS

## PROJECT LICENSED PROFESSIONAL CERTIFICATES

Kurt Wiseman (Mar 15, 2023 10:26 PDT)  Kurt Wiseman  Mar 15, 2023  AS A LICENSED PROFESSIONAL IN DIRECT RESPONSIBLE CHARGE OF DEVELOPING THIS CONTRACT, I CERTIFY THAT ALL PLANS	Gabriel Taylor  Gabriel Taylor (Mar 15, 2023 11:23 PDT)  Gabriel Taylor  Mar 15, 2023  AS A LICENSED PROFESSIONAL IN DIRECT RESPONSIBLE CHARGE OF DEVELOPING THIS CONTRACT, I CERTIFY THAT ALL PLANS	Geoffrey D Swett  Mar 15, 2023  AS A LICENSED PROFESSIONAL IN DIRECT RESPONSIBLE CHARGE OF DEVELOPING THIS CONTRACT, I CERTIFY THAT ALL PLANS	AS A LICENSED PROFESSIONAL IN DIRECT RESPONSIBLE CHARGE OF DEVELOPING THIS CONTRACT, I CERTIFY THAT ALL PLANS
THAT CONTAIN MY STAMP HAVE BEEN DEVELOPED UNDER MY SUPERVISION.  AS A LICENSED PROFESSIONAL IN DIRECT RESPONSIBLE CHARGE	THAT CONTAIN MY STAMP HAVE BEEN DEVELOPED UNDER MY SUPERVISION.  AS A LICENSED PROFESSIONAL IN DIRECT RESPONSIBLE CHARGE	THAT CONTAIN MY STAMP HAVE BEEN DEVELOPED UNDER MY SUPERVISION.  AS A LICENSED PROFESSIONAL IN DIRECT RESPONSIBLE CHARGE	THAT CONTAIN MY STAMP HAVE BEEN DEVELOPED UNDER MY SUPERVISION.  AS A LICENSED PROFESSIONAL IN DIRECT RESPONSIBLE CHARGE
AS A LICENSED PROFESSIONAL IN DIRECT RESPONSIBLE CHARGE OF DEVELOPING THIS CONTRACT, I CERTIFY THAT ALL PLANS THAT CONTAIN MY STAMP HAVE BEEN DEVELOPED UNDER MY SUPERVISION.	OF DEVELOPING THIS CONTRACT, I CERTIFY THAT ALL PLANS THAT CONTAIN MY STAMP HAVE BEEN DEVELOPED UNDER MY SUPERVISION.	AS A LICENSED PROFESSIONAL IN DIRECT RESPONSIBLE CHARGE OF DEVELOPING THIS CONTRACT, I CERTIFY THAT ALL PLANS THAT CONTAIN MY STAMP HAVE BEEN DEVELOPED UNDER MY SUPERVISION.	AS A LICENSED PROFESSIONAL IN DIRECT RESPONSIBLE CHARGE OF DEVELOPING THIS CONTRACT, I CERTIFY THAT ALL PLANS THAT CONTAIN MY STAMP HAVE BEEN DEVELOPED UNDER MY SUPERVISION.
AS A LICENSED PROFESSIONAL IN DIRECT RESPONSIBLE CHARGE OF DEVELOPING THIS CONTRACT, I CERTIFY THAT ALL PLANS THAT CONTAIN MY STAMP HAVE BEEN DEVELOPED UNDER MY SUPERVISION.	AS A LICENSED PROFESSIONAL IN DIRECT RESPONSIBLE CHARGE OF DEVELOPING THIS CONTRACT, I CERTIFY THAT ALL PLANS THAT CONTAIN MY STAMP HAVE BEEN DEVELOPED UNDER MY SUPERVISION.	AS A LICENSED PROFESSIONAL IN DIRECT RESPONSIBLE CHARGE OF DEVELOPING THIS CONTRACT, I CERTIFY THAT ALL PLANS THAT CONTAIN MY STAMP HAVE BEEN DEVELOPED UNDER MY SUPERVISION.	AS A LICENSED PROFESSIONAL IN DIRECT RESPONSIBLE CHARGE OF DEVELOPING THIS CONTRACT, I CERTIFY THAT ALL PLANS THAT CONTAIN MY STAMP HAVE BEEN DEVELOPED UNDER MY SUPERVISION.

#### NOTES:

THIS PLAN SET WAS DEVELOPED ELECTRONICALLY UNDER THE DIRECT SUPERVISION OF THE LICENSED PROFESSIONALS THAT HAVE AFFIXED THEIR SIGNATURE TO THIS PAGE.

THIS SHEET SERVES AS THE CERTIFICATION BY THE ABOVE LICENSED PROFESSIONALS OF ALL SHEETS IN THIS PLAN SET WHERE THEIR STAMPS AND SIGNATURES APPEAR.

FILE NAME	G:\Engineering\PE201\Projects\SR 17\23B013, SR 17 Soap Lake to Lake Lenore Cav	es- Unstable	Slopes\/	Ad/CADD/XL6	412_CAD Files\02 - Plan Sheet	ts\XL6412_PS_GN.dgn					Plot 3
TIME	4:00:56 PM		F	REGION STATE	FED.AID PROJ.NO.					SR 17	PLAN REF NO
DATE	3/9/2023			10 WASH							CT1
PLOTTED BY	LedbetB			IU WASH				PERTEET		SOAP LAKE TO LAKE LENORE CAVES	011
DESIGNED BY	A. SCHULTZ			JOB NUMBER				123 OHME GARDEN ROAD, SUITE 8	Washington State	UNSTABLE SLOPES	SHEET
ENTERED BY	K. CRONENWETT		$\top$	23B013				MENATCHEE WA 08801	3		3
CHECKED BY	K. WISEMAN			CONTRACT NO.	LOCATION NO.			800.615.9900	Department of Transportation		OF
PROJ. ENGR.	M. CASTILLO				XL-6412	DATE	-			CERTIFICATION SHEET	65 SHEETS
REGIONAL ADM.	D. BIERSCHBACH REVISION	DATE	BY		AL 3412	P.E. STAMP BOX					5112218

## SUMMARY OF QUANTITIES

3/14/2023

		SUB-TOTAL	SUB-TOTAL				GROUP 1	GROUP 2	GROUP 3	GROUP 4	GROUP 5	GROUP 6	GROUP 7	GROUP 8	GROUP 9						
ITEM	TOTAL	SECTION	SECTION	STD.			SR 17 MP	SR 17 MP	SR 17 MP	SR 17 MP	SR 17 MP	SR 17 MP	SR 17 MP	SR 17 MP	REIMB. FOR						
NO	QUANTITY	I-07.2(1) OF	I-07.2(2) OF	ITEM NO.	UNIT	ITEM	76.58 TO MP	76.87 TO MP	76.94 TO MP	77.02 TO MP	77.36 TO MP	83.05 TO MP	83.28 TO MP	85.06 TO MP	THIRD						
	QUANTITI	STANDARD	STANDARD	100.			76.63 SLOPE 11	76.93 SLOPE 1	77.01 SLOPE 2	77.07 SLOPE 9	77.48 SLOPE 3	83.24 SLOPE 7	83.61 SLOPE 8	85.09 SLOPE 10	PARTY DAMAGES						
		SPECS	SPECS																		
			1			PREPARATION															
1	LUMP SUM	<u> </u>	LUMP SUM	0001	L.S.	MOBILIZATION	L.S.	L.S.	L.S.	L.S.	L.S.	L.S.	L.S.	L.S.	<u> </u>			<u> </u>	<u> </u>	<u> </u>	
ļ—ļ		<u> </u>	ļ				!!							1	<u> </u>	<u> </u>			<u> </u>		
	550.00	<u> </u>	I 550.00	1 0000	OPUP	GRADING		1 00.00	1 00.00	40.00	100.00	450.00	400.00	1 40.00	1		<u> </u>	<u> </u>	1	<u>                                     </u>	
3	550.00	<u> </u>	550.00 4200.00			ROCK SLOPE SCALING	40.00	30.00	30.00	40.00	100.00	150.00	120.00	40.00	1	1	<u> </u>		1		
3	4200.00	<u> </u> 	4200.00	0390	C.Y.	ROCK SLOPE SCALING DEBRIS REMOVAL INCL. HAUL	300.00	200.00	200.00	300.00	800.00	1,200.00	800.00	400.00	1			<u> </u>	1	<u> </u>	
	!	l	1	<u> </u>		LIQUID ASPHALT		<u> </u>	<u> </u>		1			<u> </u>	1	1			1		
4	0.31	<u> </u> 	0.31	5340	TON	ASPHALT FOR FOG SEAL	0.02	0.02	0.02	0.02	0.02	0.10	0.10	0.01	i	1	1	1	1		
	0.01	<u> </u> 	1			No. The Elifont Go GENE		0.02	1	0.02	1	0.10	0.10	1	1	1	<del> </del>	İ	<u> </u>	1 1	
i	i	! 	i			HOT MIX ASPHALT	i	1						i	i	1	<u> </u>	i	i		
5	14407.00	İ	14407.00	5711	S.Y.	PLANING BITUMINOUS PAVEMENT	792.00	1,057.00	1,057.00	1,057.00	1,110.00	4,430.00	4,430.00	474.00	İ	i	i	İ	i	<u> </u>	
6	1477.00	<u> </u>	1477.00			HMA CL. 3/8 IN. PG 64H-28	81.00	108.00	108.00	109.00	114.00	454.00	454.00	49.00	İ	İ.	i .	i	i	i i	
7	4802.00		4802.00	<u>i         i          i           i      </u>	L.F.	JOINT ADHESIVE FOR BITUMINOUS PAVEMENT	264.00	352.00	352.00	352.00	370.00	1,477.00	1,477.00	158.00				<u> </u>			
8	12.00		12.00		EACH	PLANING SHOULDER DRAINAGE CUTOUT	1.00	1.00	1.00	1.00	1.00	3.00	3.00	1.00							
9	7090.00		7090.00	5830	DOL	JOB MIX COMPLIANCE PRICE ADJUSTMENT	369.00	493.00	493.00	493.00	887.00	2,066.00	2,066.00	223.00							
10	11820.00		11820.00			COMPACTION PRICE ADJUSTMENT	615.00	822.00	822.00	822.00	1,479.00	3,444.00	3,444.00	372.00					1		
11	1691.00		1691.00	5837		ASPHALT COST PRICE ADJUSTMENT	88.00	118.00	118.00	118.00	212.00	492.00	492.00	53.00		<u> </u>					
12	90000.00		90000.00	7715	DOL	FORCE ACCOUNT PAVEMENT PATCHING	11,250.00	11,250.00	11,250.00	11,250.00	11,250.00	11,250.00	11,250.00	11,250.00	<u> </u>				<u> </u>	<u> </u>	
$\vdash$		1	<u> </u>						1					1	1	1		<u> </u>	<u> </u>		
10		<u> </u>	1.00	10474	FACIL	EROSION CONTROL AND ROADSIDE PLANTING INLET PROTECTION		1	1		1		4.00	1	1	1	<u> </u>	<u> </u>	1		
13	1.00	<u> </u> 	1.00	6471	EACH	INLET PROTECTION		1	<u> </u>				1.00	<u> </u>	1	1		<u> </u>	<u> </u>	1 1	
-	<u> </u>	<u> </u> 	<u> </u> 	<u>                                     </u>		TRAFFIC		<u> </u>	<u> </u> 		<u> </u>			<u> </u> 	1	1	<u> </u> 	<u> </u>	1	<u>                                     </u>	
14	720.00	<u> </u> 	720.00	7448	HR	TRANSPORTABLE ATTENUATOR	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	1	1		<u> </u>	<u> </u>	1 1	
15	7549.00	I	7549.00	-		REPAIR TRANSPORTABLE ATTENUATOR	983.00	938.00	938.00	938.00	938.00	938.00	938.00	938.00	1	1	<del>_</del>	i	İ	<u> </u>	
16	33.00		33.00	6832	EACH	FLEXIBLE GUIDE POST	2.00	4.00	4.00	2.00	2.00	9.00	8.00	2.00	i	İ	i	i	İ		
17	15198.00	İ	15198.00	6806	L.F.	PAINT LINE	792.00	1,057.00	1,057.00	1,057.00	1,902.00	4,429.00	4,429.00	475.00	İ	İ	i	İ	İ	İ	
18	0.59		0.59	6893	MI.	CENTERLINE RUMBLE STRIP					I	0.23	0.33	0.03					1		
19	0.33		0.33	6901	MI.	SINUSOIDAL RUMBLE STRIP	0.06	0.07	0.08	0.05	0.07										
20	4.00		4.00	7441	EACH	TEMPORARY PORTABLE TRANSVERSE RUMBLE STRIPS	1.00				1.00	1.00		1.00							
21	9605.00	<u> </u>	9605.00	6895		TEMPORARY PAVEMENT MARKING-SHORT DURATION	528.00	705.00	705.00	705.00	740.00	2,953.00	2,953.00	316.00	<u> </u>	<u> </u>	_!		<u> </u>	<u> </u>	
22	1440.00	<u> </u>	1440.00	6920		AUTOMATED FLAGGER ASSISTANCE DEVICE	180.00	180.00	180.00	180.00	180.00	180.00	180.00	180.00	<u> </u>	<u> </u>			<u> </u>		
23	4776.00	<u> </u>	4776.00	6993		PORTABLE CHANGEABLE MESSAGE SIGN	597.00	597.00	597.00	597.00	597.00	597.00	597.00	597.00	1	1			1		
24					L.S.	OTHER TEMPORARY TRAFFIC CONTROL DEVICES	L.S.	L.S.	L.S.	L.S.	L.S.	L.S. 180.00	L.S.	L.S.	1	1	<u> </u>	<u> </u>	1	1	1
05	LUMP SUM	<u> </u>	LUMP SUM				100.00	400.00	400.00				180.00	180.00	1	1	<u> </u>		1	1	
25	1440.00	   	1440.00	6980	HR	FLAGGERS  OTHER TRAFFIC CONTROL LABOR	180.00	180.00	180.00	180.00	180.00			1E 00		1			i	1 '	
26	1440.00 360.00	 	1440.00 360.00	6980	HR HR	OTHER TRAFFIC CONTROL LABOR	45.00	45.00	45.00	45.00	45.00	45.00	45.00	45.00	1	i	<u> </u> 	1	1	<u>                                     </u>	
26 27	1440.00 360.00 LUMP SUM	 	1440.00 360.00 LUMP SUM	6980     6992     6974	HR HR L.S.	OTHER TRAFFIC CONTROL LABOR TRAFFIC CONTROL SUPERVISOR	45.00 L.S.	45.00 L.S.	45.00 L.S.	45.00 L.S.	45.00 L.S.	45.00 L.S.	45.00 L.S.	L.S.	<u> </u> 		   		<u> </u> 		
26   27   28	1440.00 360.00 LUMP SUM 50000.00	 	1440.00 360.00 LUMP SUM 50000.00	6980   6992   6974   7572	HR HR L.S.	OTHER TRAFFIC CONTROL LABOR TRAFFIC CONTROL SUPERVISOR WORK ZONE SAFETY CONTINGENCY	45.00 L.S. 6,250.00	45.00 L.S. 6,250.00	45.00 L.S. 6,250.00	45.00 L.S. 6,250.00	45.00 L.S. 6,250.00	45.00 L.S. 6,250.00	45.00 L.S. 6,250.00	L.S. 6,250.00			     				
26 27	1440.00 360.00 LUMP SUM		1440.00 360.00 LUMP SUM	6980     6992     6974	HR HR L.S.	OTHER TRAFFIC CONTROL LABOR TRAFFIC CONTROL SUPERVISOR	45.00 L.S.	45.00 L.S.	45.00 L.S.	45.00 L.S.	45.00 L.S.	45.00 L.S.	45.00 L.S.	L.S.							
26   27   28	1440.00 360.00 LUMP SUM 50000.00		1440.00 360.00 LUMP SUM 50000.00	6980   6992   6974   7572	HR HR L.S.	OTHER TRAFFIC CONTROL LABOR TRAFFIC CONTROL SUPERVISOR WORK ZONE SAFETY CONTINGENCY	45.00 L.S. 6,250.00	45.00 L.S. 6,250.00	45.00 L.S. 6,250.00	45.00 L.S. 6,250.00	45.00 L.S. 6,250.00	45.00 L.S. 6,250.00	45.00 L.S. 6,250.00	L.S. 6,250.00							
26   27   28	1440.00 360.00 LUMP SUM 50000.00 140.00		1440.00 360.00 LUMP SUM 50000.00	6980   6992   6974   7572	HR HR L.S. DOL S.F.	OTHER TRAFFIC CONTROL LABOR TRAFFIC CONTROL SUPERVISOR WORK ZONE SAFETY CONTINGENCY CONSTRUCTION SIGNS CLASS A	45.00 L.S. 6,250.00	45.00 L.S. 6,250.00	45.00   L.S.   6,250.00   18.00	45.00 L.S. 6,250.00	45.00 L.S. 6,250.00	45.00 L.S. 6,250.00 16.00	45.00 L.S. 6,250.00 16.00	L.S. 6,250.00							
26   27   28   29	1440.00 360.00 LUMP SUM 50000.00 140.00		1440.00 360.00 LUMP SUM 50000.00 140.00	6980   6992   6974   7572	HR HR L.S. DOL S.F.	OTHER TRAFFIC CONTROL LABOR TRAFFIC CONTROL SUPERVISOR WORK ZONE SAFETY CONTINGENCY CONSTRUCTION SIGNS CLASS A OTHER ITEMS	45.00 L.S. 6,250.00	45.00   L.S.   6,250.00   18.00	45.00   L.S.   6,250.00   18.00	45.00 L.S. 6,250.00	45.00   L.S.   6,250.00   18.00   28,600.00	45.00 L.S. 6,250.00 16.00	45.00 L.S. 6,250.00 16.00	L.S. 6,250.00							
26   27   28   29   30	1440.00 360.00 LUMP SUM 50000.00 140.00		1440.00 360.00 LUMP SUM 50000.00 140.00	6980     6992     6974     7572     6982   	HR HR L.S. DOL S.F. S.F.	OTHER TRAFFIC CONTROL LABOR TRAFFIC CONTROL SUPERVISOR WORK ZONE SAFETY CONTINGENCY CONSTRUCTION SIGNS CLASS A  OTHER ITEMS TYPE 1 SLOPE PROTECTION	45.00 L.S. 6,250.00	45.00   L.S.   6,250.00   18.00	45.00   L.S.   6,250.00   18.00   4,600.00	45.00 L.S. 6,250.00	45.00   L.S.   6,250.00   18.00   28,600.00   25,500.00	45.00 L.S. 6,250.00 16.00	45.00 L.S. 6,250.00 16.00	L.S. 6,250.00							
26   27   28   29   30   31	1440.00 360.00 LUMP SUM 50000.00 140.00 128800.00 106600.00		1440.00 360.00 LUMP SUM 50000.00 140.00	6980   6992   6974   7572   6982	HR HR L.S. DOL S.F. S.F. S.F. DOL	OTHER TRAFFIC CONTROL LABOR TRAFFIC CONTROL SUPERVISOR WORK ZONE SAFETY CONTINGENCY CONSTRUCTION SIGNS CLASS A  OTHER ITEMS TYPE 1 SLOPE PROTECTION TYPE 2 SLOPE PROTECTION	45.00   L.S.   6,250.00   18.00	45.00   L.S.   6,250.00   18.00   7,800.00	45.00   L.S.   6,250.00   18.00   4,600.00   8,100.00	45.00 L.S. 6,250.00 18.00	45.00 L.S. 6,250.00 18.00 28,600.00 25,500.00 1,250.00	45.00 L.S. 6,250.00 16.00 52,800.00 25,500.00	45.00 L.S. 6,250.00 16.00 35,000.00 47,500.00	L.S.   6,250.00   18.00 							
26   27   28   29   30   31   32	1440.00 360.00 LUMP SUM 50000.00 140.00 128800.00 106600.00 10000.00		1440.00 360.00 LUMP SUM 50000.00 140.00 128800.00 106600.00 10000.00	6980   6992   6974   7572   6982	HR HR L.S. DOL S.F. S.F. DOL DOL DOL	OTHER TRAFFIC CONTROL LABOR TRAFFIC CONTROL SUPERVISOR WORK ZONE SAFETY CONTINGENCY CONSTRUCTION SIGNS CLASS A  OTHER ITEMS TYPE 1 SLOPE PROTECTION TYPE 2 SLOPE PROTECTION FORCE ACCOUNT BIRD NEST MITIGATION	45.00   L.S.   6,250.00   18.00	45.00   L.S.   6,250.00   18.00   7,800.00   1,250.00	45.00 L.S. 6,250.00 18.00 4,600.00 8,100.00 1,250.00	45.00 L.S. 6,250.00 18.00	45.00 L.S. 6,250.00 18.00 28,600.00 25,500.00 1,250.00 5,588.00	45.00 L.S. 6,250.00 16.00 52,800.00 25,500.00 1,250.00	45.00 L.S. 6,250.00 16.00 35,000.00 47,500.00 1,250.00	L.S.   6,250.00   18.00 	5.00						

GROUP	GROUP NUMBER	SR	CONTROL SECTION	TAX SCHEDULE	FUND PARTICIPANTS	GROUP NUMBER	SR	CONTROL SECTION	TAX SCHEDULE	FUND PARTICIPANTS
LEGEND	1	017	133631	**	FEDERAL	9	017	133631	**	STATE
	2	017	133631	**	FEDERAL					
	3	017	133631	**	FEDERAL					
	4	017	133631	**	FEDERAL					
	5	017	133631	**	FEDERAL					
	6	017	133631	**	FEDERAL					
	7	017	133631	**	EEDEDAI					

		REGI	ON STATE	FEDERAL AID PROJECT. NO.		SD 17	SQ1
		10	WA	0017(053)		SIX II	301
					Washington State	SOAP LAKE TO LAKE LENORE CAVES	SHEET
			B NUMBER		Department of Transportation	UNSTABLE SLOPES	4
		2.	3B013/2		Boparamont of Transportation		OF
			NTRACT NO			SUMMARY OF QUANTITIES	65
DATE	REVISION	BY	000000				SHEETS

DOT\_RGG900

## SUMMARY OF QUANTITIES

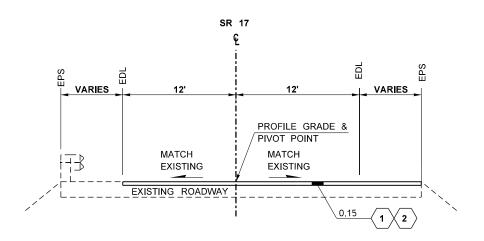
3/14/2023

		SUB-TOTAL	SUB-TOTAL				GROUP 1	GROUP 2	GROUP 3	GROUP 4	GROUP 5	GROUP 6	GROUP 7	GROUP 8	GROUP 9						
NO NO	TOTAL QUANTITY	SECTION I-07.2(1) OF STANDARD SPECS	SECTION I-07.2(2) OF STANDARD SPECS	STD. ITEM NO.	UNIT	ITEM	SR 17 MP 76.58 TO MP 76.63 SLOPE 11	SR 17 MP 76.87 TO MP 76.93 SLOPE 1	SR 17 MP 76.94 TO MP 77.01 SLOPE 2	SR 17 MP 77.02 TO MP 77.07 SLOPE 9	SR 17 MP 77.36 TO MP 77.48 SLOPE 3	SR 17 MP 83.05 TO MP 83.24 SLOPE 7	SR 17 MP 83.28 TO MP 83.61 SLOPE 8		REIMB. FOR THIRD PARTY DAMAGES						
36	-8.00		-8.00	7728	DOL	MINOR CHANGE	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00			ĺ	1			
37	-8.00	1	-8.00	7732	DOL	AGGREGATE COMPLIANCE PRICE ADJUSTMENT	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00			1	1	1		
38	LUMP SUM	1	LUMP SUM	7736	L.S.	SPCC PLAN	L.S.	L.S.	L.S.	L.S.	L.S.	L.S.	L.S.	L.S.			1	1	1		
39	3846.00	1	3846.00		L.F.	STRAW BALE - GUARDRAIL PROTECTION	<u>                                   </u>	377.00	377.00	324.00	430.00	430.00	1,908.00					1			
40	200.00	l	200.00	7070	L.F.	ROCK BOLT		1	l		200.00						1	1	1		
41	200.00		200.00	7071	L.F.	ROCK DOWEL TYPE 1			1		200.00						1	1			
42	20000.00		20000.00	7073	DOL	FORCE ACCOUNT ROCK BOLT & ROCK DOWEL GROUT EXCEEDANCE		4,000.00	4,000.00		4,000.00	4,000.00	4,000.00			•		1			
							i <u> </u>	1	1								1	1			

GROUP	GROUP NUMBER	SR	CONTROL SECTION	TAX SCHEDULE	FUND PARTICIPANTS	GROUP NUMBER
LEGEND	1	017	133631	**	FEDERAL	9
	2	017	133631	**	FEDERAL	
	3	017	133631	**	FEDERAL	
	4	017	133631	**	FEDERAL	
	5	017	133631	**	EEDEDAI	

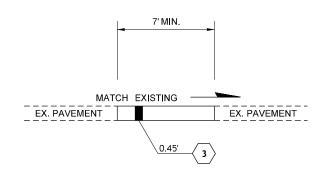
GROUP NUMBER	SR	CONTROL SECTION	TAX SCHEDULE	FUND PARTICIPANT
9	017	133631	**	STATE

		REGIO	N STATE	FEDERAL AID PROJECT. NO.		OD 47	SQ2
		10	WA	0017(053)		SR 17	SQZ
					Washington State	SOAP LAKE TO LAKE LENORE CAVES	SHEET
			NUMBER <b>B013/2</b>		Department of Transportation	UNSTABLE SLOPES	5
						SUMMARY OF QUANTITIES	OF OF
DATE	DEVICION .	l l	TRACT NO <b>0000</b>			SUMMANT OF QUANTITIES	SHEETS
DATE	REVISION	BY 0	30000				J SIILLIS



### **ROADWAY SECTION A**

MP 76.57 - MP 76.63 MP 76.87 - MP 77.07 MP 77.36 - MP 77.43 MP 83.05 - MP 83.61 MP 85.06 - MP 85.09



#### FORCE ACCOUNT PAVEMENT PATCHING

FORCE ACCOUNT PAVEMENT PATCHING WILL BE STAKED BY THE ENGINEER AFTER SCALING IS COMPLETE

#### LEGEND:

- (1) PLANING BITUMINOUS PAVEMENT
- 2 HMA CL. 3/8 IN. PG 64H-28
- 3 FORCE ACCOUNT PAVEMENT PATCHING

EPS = EDGE OF PAVED SHOULDER EDL = EDGE OF DRIVING LANE LL = LANE LINE

NOT TO SCALE

#### GENERAL NOTE:

1. SEE SPECIAL PROVISION "FORCE ACCOUNT PAVEMENT PATCHING."

FILE NAME	G:\Engineering\PE201\Projects	SISR 17\23B013, SR	17 Soap	Lake to Lak	e Lenore	Caves- Unsta	ble Slope	s\Ad\C	ADD\XL6	412_CAD	Files	\02 - Plan	Sheet
TIME	4:08:00 PM							REGION NO.	STATE	FED.	AID	PROJ.NC	).
DATE	3/9/2023								WASH				
PLOTTED BY	LedbetB							יי ן	WASH				
DESIGNED BY	A. SCHULTZ								NUMBER				
ENTERED BY	K. CRONENWETT							23E	8013				
CHECKED BY	K. WISEMAN							CONTI	RACT NO.		LOCAT	ION NO.	
PROJ. ENGR.	M. CASTILLO							1			XI "	5412	
REGIONAL ADM.	D. BIERSCHBACH		REVIS	SION		DATE	ВҮ				/\ <b>L</b> -(	J-7 1 Z	





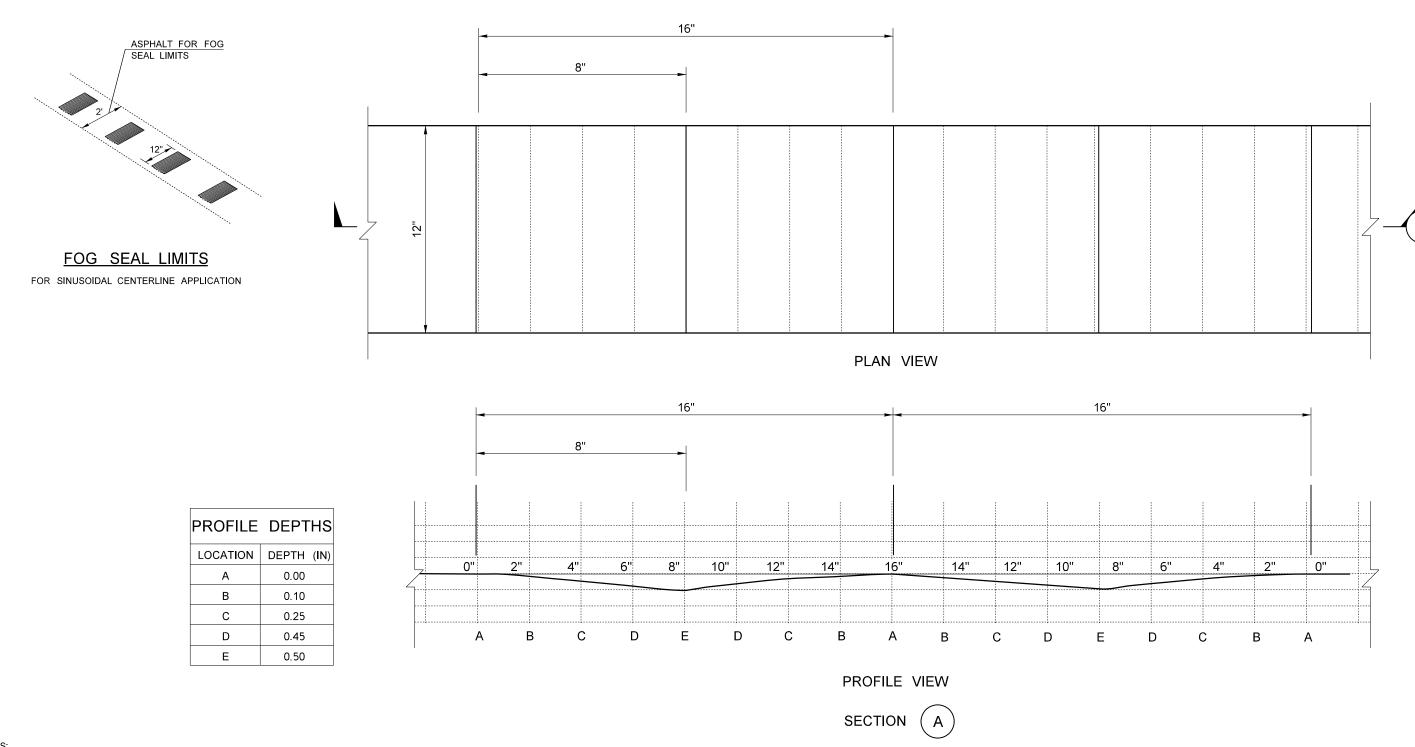


I		SR 17									
I	SOAP	LAKE	то	LAKE	LENORE	CAVES					
		UN	STA	BLE S	LOPES						

**ROADWAY SECTIONS** 

SHEET
6
0F
65
SHEETS

Plot 1 PLAN REF NO **RS1** 



#### NOTES:

- 1. RUMBLE STRIPS, AS SHOWN ON THIS PLAN, SHALL NOT BE CONSTRUCTED ON BRIDGE DECKS OR BRIDGE APPROACH SLABS, OR ACROSS THE FULL WIDTH OF RAMPS.
- 2. FOR RUMBLE STRIPS PLACED ON CENTERLINE, SEE STD. PLAN M-65.10 FOR PLACEMENT DETAILS.
- 3. SEE SPECIAL PROVISION "SINUSOIDAL RUMBLE STRIP".

### SINUSOIDAL RUMBLE STRIP (CENTERLINE)

FILE NAME	G:\Engineering\PE201\Projects\S	SR 17\23B013, SR 17 Soap Lake to Lake Lenore Cav	es- Unstable	Slopes	s\Ad\CADD\XL6	412_CAD Files\02 - Plan Shee	ts\XL6412_PS_RS.dgn				Plot 2
TIME	4:08:01 PM				REGION STATE	FED.AID PROJ.NO.	LIAM W			SR 17	PLAN REF NO
DATE	3/9/2023				10 WASH		S St. Of WASHING	T			RS2
PLOTTED BY	LedbetB				IU WASH			PERTEET		SOAP LAKE TO LAKE LENORE CAVES	1102
DESIGNED BY	A. SCHULTZ				JOB NUMBER		Turt France	123 OHME GARDEN ROAD, SUITE 8	Washington State	UNSTABLE SLOPES	SHEET
ENTERED BY	K. CRONENWETT				23B013		56344	WENATCHEE, WA 98801	3		7
CHECKED BY	K. WISEMAN				CONTRACT NO.	LOCATION NO.	SSONAL ENGIN	800.615.9900	Department of Transportation		OF
PROJ. ENGR.	M. CASTILLO					XL-6412	SEE CT1			ROADWAY SECTIONS	65 SHEETS
REGIONAL ADM	D. BIERSCHBACH	REVISION	DATE	BY		XE 0412	P.E. STAMP BOX				SHEETS

#### ASPHALT FOR FOG SEAL SLOPE VOLUME (TON) MP MΡ 76.57 76.63 0.02 0.02 76.87 76.94 0.02 76.94 77.02 77.02 77.07 0.02 0.02 77.36 77.43 0.10 83.28 83.05 83.28 83.61 0.01 85.06 85.09

TOTAL:

PLANING BITUMINOUS PAVEMENT

0.31

4430

474

14407

SLOPE	MP	MP	VOLUME (TON)
			, ,
11	76.57	76.63	81
1	76.87	76.94	108
2	76.94	77.02	108
9	77.02	77.07	109
3	77.36	77.43	114
7	83.05	83.28	454
8	83.28	83.61	454
10	85.06	85.09	49

TEMPORARY PAVEMENT MARKING-SHORT DURATION										
	SEE STANDARD PLAN M-24.60									
SLOPE	MP	MP	YELLOW DOUBLE CENTERLINE (L.F.)							
11	76.57	76.63	528							
1	76.87	76.94	705							
2	76.94	77.02	705							
9	77.02	77.07	705							
3	77.36	77.43	740							
7	83.05	83.28	2,953							
8	83.28	83.61	2,953							
10	85.06	85.09	316							
		TOTAL:	9,605							

	MP	QTY (EACH)
76.57	76.63	2
76.87	76.94	4
76.94	77.02	4
77.02	77.07	2
77.36	77.43	2
83.05	83.28	9
83.28	83.61	8
85.06	85.09	2
	76.87 76.94 77.02 77.36 83.05 83.28	76.87 76.94 76.94 77.02 77.02 77.07 77.36 77.43 83.05 83.28 83.28 83.61

SLOPE	MP	MP	AREA (SY)
11	76.57	76.63	792
1	76.87	76.94	1057
2	76.94	77.02	1057
9	77.02	77.07	1057
3	77.36	77.43	1110

83.28

83.61

85.09 TOTAL:

83.05

83.28

85.06

SLOPE	M P	QTY (EACH)
8	83.56	1
	TOTAL:	1

INLET PROTECTION

		SEES	HEET RS2
SLOPE	MP	MP	LENGTH (MI.)
11	76.57	76.63	0.06
1	76.87	76.94	0.07
2	76.94	77.02	0.08
9	77.02	77.07	0.05
3	77.36	77.43	0.07
		TOTAL:	0.33

SINUSOIDAL RUMBLE STRIP

"PLANI	SEE SPECIAL PROVISION "PLANING SHOULDER DRAINAGE CUTOUT"									
SLOPE	MP	MP	QTY (EACH)							
11	76.57	76.63	1							
1	76.87	76.94	1							
2	76.94	77.02	1							
9	77.02	77.07	1							
3	77.36	77.43	1							
7	83.05	83.28	3							
8	83.28	83.61	3							
10	85.06	85.09	1							
-		TOTAL:	12							

PLANING SHOULDER DRAINAGE CUTOUT

SEE STANDARD PLAN M-20.10													
SLOPE	MP			RIGHT WHITE EDGE LINE (L.F.)	YELLOW DOUBLE CENTERLINE (L.F.)								
11	76.57	76.63	264	264	264								
1	76.87	76.94	352	352	352								
2	76.94	77.02	352	352	352								
9	77.02	77.07	353	353	353								
3	77.36	77.43	370	370	370								
7	83.05	83.28	1,476	1,476	1,476								
8	83.28	83.61	1,477	1,477	1,477								
10	85.06	85.09	158	158	158								
	•	SUBTOTAL:	4,802	4,802	4,802								
				TOTAL:	14,406								

	CENTERLINE RUMBLE STRIP											
	SEE STANDARD PLAN M-65.10											
SLOPE	MP	MP	LENGTH (MI.)									
7	83.05	83.28	0.23									
8	83.28	83.61	0.33									
10	85.06	85.09	0.03									
		TOTAL:	0.59									

NOTES:

1. SEE SPECIAL PROVISION "PLANING SHOULDER DRAINAGE CUTOUT."
2. SEE SPECIAL PROVISION "GUIDE POSTS."
3. SEE SPECIAL PROVISION "TEMPORARY PAVEMENT MARKINGS - SHORT DURATION."
4. SEE DETAIL ON SHEET RS2 FOR ADDITIONAL SINUSOIDAL RUMBLE STRIP INFORMATION.

Plot 1 PLAN REF NO QT1

SHEET

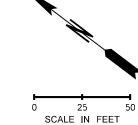
8
OF
65
SHEETS

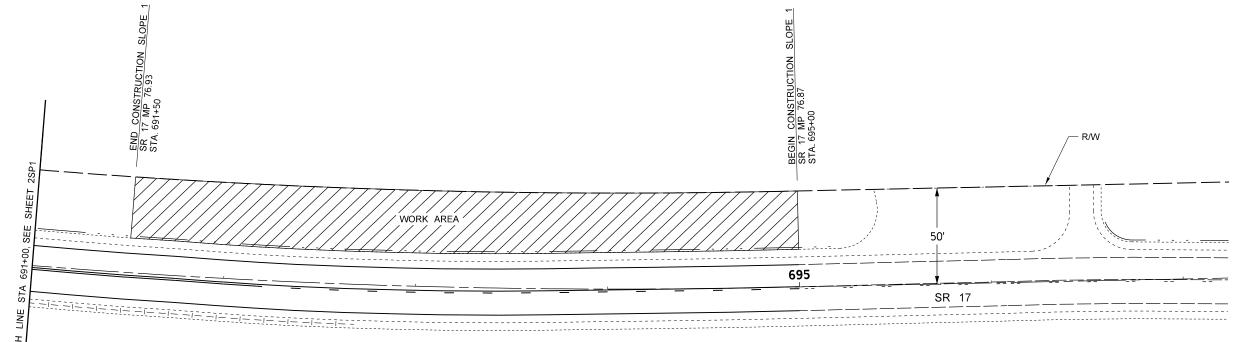
FILE NAME	G:\Engineering\PE201\Projects	s\SR 17\23B013, SR 17 Soap Lake to Lake Lenore Cav	/es- Unstable	Slope	s\Ad\CAE	D\XL64	12_CAD Files\02 - Plan Shee	ts\XL6412_PS_QT.dgn		
TIME	4:19:08 PM				REGION	STATE	FED.AID PROJ.NO.		1	
DATE	3/9/2023				10 V	VASH				
PLOTTED BY	LedbetB				ן יי ן	VASI			$ \succ angle$ PERTEET $ $	
DESIGNED BY	A. SCHULTZ				JOB NU				123 OHME GARDEN ROAD, SUITE 8	
ENTERED BY	K. CRONENWETT				23B0	13			WENATCHEE, WA 98801	
CHECKED BY	K. WISEMAN				CONTRAC	CT NO.	LOCATION NO.		800.615.9900	Dep
PROJ. ENGR.	M. CASTILLO						XL-6412	DATE	1	
REGIONAL ADM	D. BIERSCHBACH	REVISION	DATE	BY			7.L 0412	P.E. STAMP BOX	1	



	SR 17
SOAP	LAKE TO LAKE LENORE CAVES
	UNSTABLE SLOPES
	QUANTITY TABULATIONS







- EXISTING FEATURES ARE APPROXIMATE. THEY ARE BASED ON AVAILABLE AERIAL PHOTOS AND FIELD MEASUREMENTS.
- 2. ALL CONTRACTOR WORK ACTIVITIES SHALL REMAIN WITHIN EXISTING WSDOT RIGHT OF WAY, INCLUDING ANY ANCHORS OR ACCESS REQUIRED FOR SLOPE WORK.
- 3. INSTALL TEMPORARY EROSION AND SEDIMENT CONTROL (TESC) BEST MANAGEMENT PRACTICES (BMPS) IN ACCORDANCE WITH THE TESC NARRATIVE (APPENDIX C).
- 4. ALL STATIONS ARE APPROXIMATE.
- 5. ALL UTILITY LOCATIONS ARE APPROXIMATE.

FILE NAME	G:\Engineering\PE201\Projects	\SR 17\23B013, SR	17 Soap Lake	to Lake Len	ore Cave	s- Unstable	Slope	s\Ad\C	ADD\XL6	412_CAD	Files	02 - Plan	Sheet	s\XL64
TIME	4:16:27 PM							REGION NO.	STATE	FED.	AID	PROJ.NO	).	يو. [
DATE	3/9/2023								WASH					
PLOTTED BY	LedbetB							יי ן	WASH					
DESIGNED BY	A. SCHULTZ								NUMBER					Men
ENTERED BY	K. CRONENWETT							23B	8013					
CHECKED BY	K. WISEMAN							CONTR	RACT NO.		LOCATI	ON NO.		] 🔌
PROJ. ENGR.	M. CASTILLO							1			XI _6	412		
REGIONAL ADM.	D. BIERSCHBECH		REVISION			DATE	BY	1			/\ <b>_</b> _(	7712		1

EXISTING RIGHT OF WAY

EXISTING BURIED TELEPHONE
EXISTING EDGE OF ROADWAY

EXISTING DITCH

EXISTING GUARDRAIL

EXISTING LANE LINE

EXISTING NO PASS LINE

EXISTING DOUBLE YELLOW CENTERLINE

EXISTING EDGE OF DRIVING LANE

PAINT LINE (YELLOW CENTERLINE)

PAINT LINE (YELLOW NO PASS)

PAINT LINE (WHITE EDGE)

EXISTING EDGE OF PAVED SHOULDER

EXISTING EDGE OF GRAVEL SHOULDER

PAINT LINE (YELLOW DOUBLE CENTERLINE)

LEGEND:

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	<b>7</b>
0.000	Washington State Department of Transportation

			SR 17		
SOAP	LAKE	то	LAKE	LENORE	CAVES
	UN	STA	BLE S	LOPES	

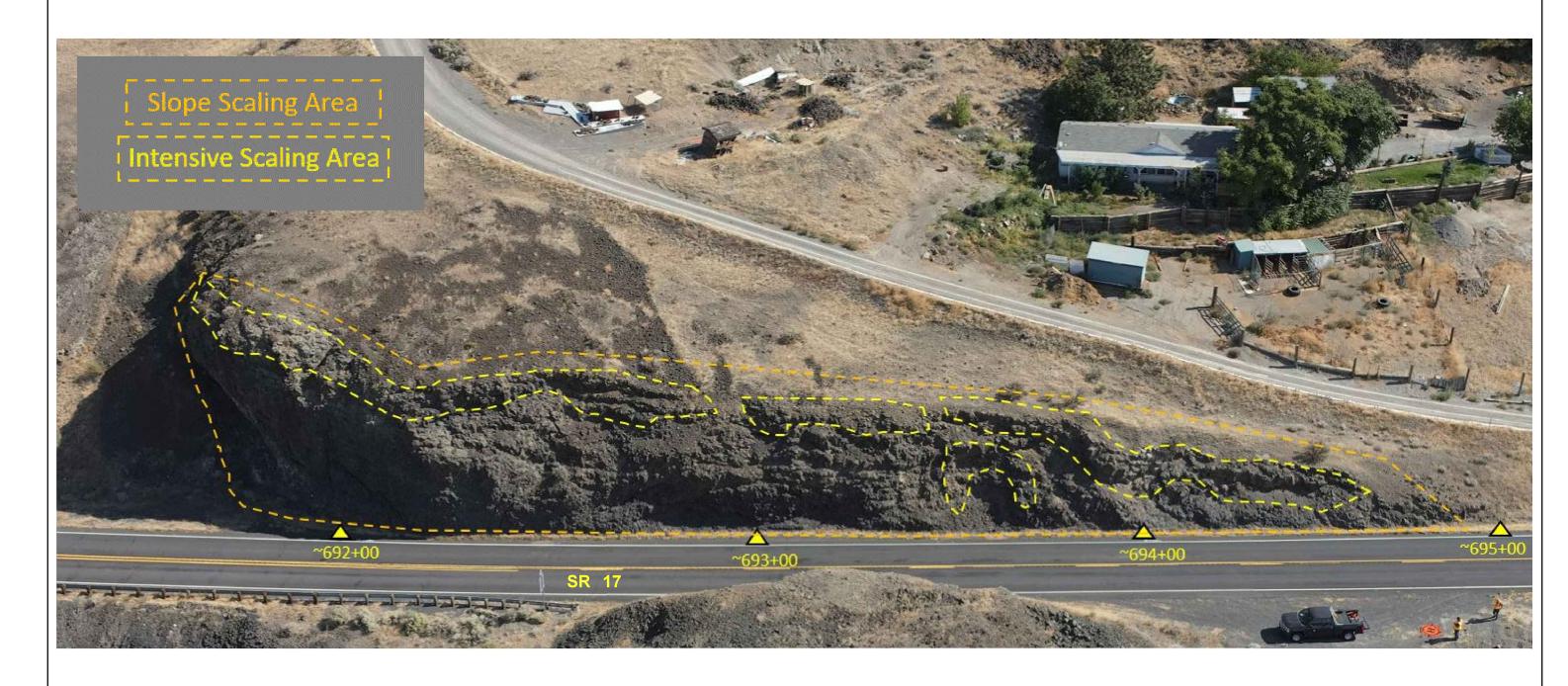
SLOPE 1 SITE PLAN

SHEET 9 OF 65 SHEETS

Plot 1

- ACCESS TO ALL SLOPES IS ONLY AVAILABLE FROM THE ROADWAY.
- SEE SHEET RS1 AND MD1 FOR PAVEMENT REPAIR AND GUARDRAIL PROTECTION DETAILS ASSOCIATED WITH ROCK SCALING OPERATIONS.

T. 22N. R. 27E. W.M. SECTION 18 SLOPE 1



FILE NAME	G:\EngIneering\PE201\Projects	s\SR 17\23B013, SR 17 Soap Lake to Lake Lenore Cave	es- Unstable	Slopes\Ad\CADD\XL6	412_CAD Files\02 - Plan Shee	ts\XL6412_PS_Slope 1.dgn				Plot 2
TIME	4:16:28 PM			REGION STATE	FED.AID PROJ.NO.	of Washing			SR 17	PLAN REF NO
DATE	3/9/2023			10 WASH		000	D			1ST1
PLOTTED BY	LedbetB			T 10 WASH		8	PERTEET		SOAP LAKE TO LAKE LENORE CAVES	'0''
DESIGNED BY	A. SCHULTZ			JOB NUMBER		Engineering Geologist	123 OHME GARDEN ROAD, SUITE 8	Washington State	UNSTABLE SLOPES	SHEET
ENTERED BY	K. CRONENWETT			23B013		2869	WENATCHEE, WA 98801	3		10
CHECKED BY	K. WISEMAN			CONTRACT NO.	LOCATION NO.	Schiell Today	800.615.9900	Department of Transportation		_ OF
PROJ. ENGR.	M. CASTILLO				XL-6412	Gabriel L. Taylor SEE CT1			SLOPE 1 STABILIZATION PLAN	65 SHEETS
REGIONAL ADM.	D. BIERSCHBECH	REVISION	DATE	BY	AL 0712	P.E. STAMP BOX	1			SILE 18

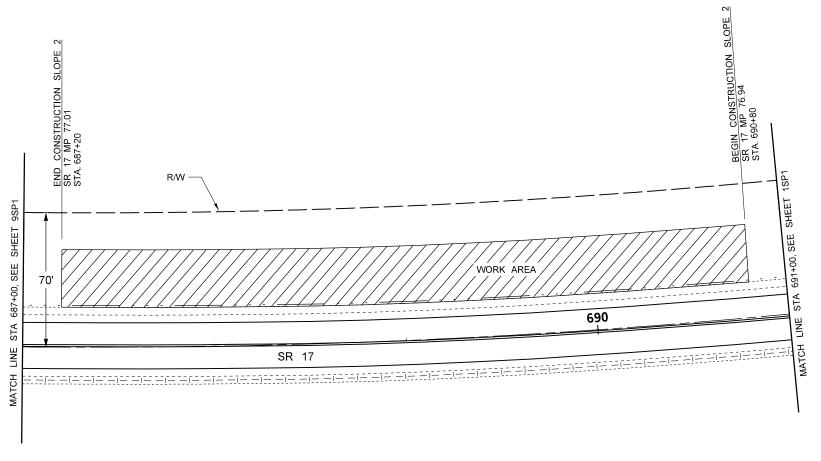
- 1. ACCESS TO ALL SLOPES ONLY AVAILABLE FROM THE ROADWAY.
- SEE SPECIAL PROVISION "PERMANENT GROUND ANCHORS," "TYPE 1 SLOPE PROTECTION," AND "TYPE 2 SLOPE PROTECTION" FOR NETTING AND ANCHORING INFORMATION AND REQUIREMENTS.

T. 22N. R. 27E. W.M. SECTION 18 SLOPE 1



FILE NAME	G:\EngIneering\PE201\Projects	s\SR 17\23B013, SR 17 Soap Lake to Lake Lenore Cave	es- Unstable	Slopes\Ad\CADD\XL6	412_CAD Files\02 - Plan Shee	ts\XL6412_PS_Slope 1.dgn				Plot 3
TIME	4:16:28 PM			REGION STATE	FED.AID PROJ.NO.	of Washing			SR 17	PLAN REF NO
DATE	3/9/2023			10 WASH		000	D			1ST2
PLOTTED BY	LedbetB			T 10 WASH		8	PERTEET		SOAP LAKE TO LAKE LENORE CAVES	'5'2
DESIGNED BY	A. SCHULTZ			JOB NUMBER		Engineering Geologist	123 OHME GARDEN ROAD, SUITE 8	Washington State	UNSTABLE SLOPES	SHEET
ENTERED BY	K. CRONENWETT			23B013		2869	WENATCHEE, WA 98801	3		11
CHECKED BY	K. WISEMAN			CONTRACT NO.	LOCATION NO.	Schiell Today	800.615.9900	Department of Transportation		_ OF
PROJ. ENGR.	M. CASTILLO				XL-6412	Gabriel L. Taylor SEE CT1			SLOPE 1 STABILIZATION PLAN	65 SHEETS
REGIONAL ADM.	D. BIERSCHBECH	REVISION	DATE	BY	AL 0712	P.E. STAMP BOX	1			SILE 18

# T. 22N. R. 27E. W.M. SECTION 18 SLOPE 2



## 0 25 50 SCALE IN FEET

#### LEGEND:

EXISTING RIGHT OF WAY EXISTING DITCH EXISTING BURIED TELEPHONE EXISTING EDGE OF ROADWAY EXISTING GUARDRAIL EXISTING LANE LINE EXISTING NO PASS LINE EXISTING DOUBLE YELLOW CENTERLINE EXISTING EDGE OF DRIVING LANE -----EXISTING EDGE OF PAVED SHOULDER EXISTING EDGE OF GRAVEL SHOULDER PAINT LINE (YELLOW CENTERLINE) PAINT LINE (YELLOW NO PASS) PAINT LINE (YELLOW DOUBLE CENTERLINE)

PAINT LINE (WHITE EDGE)

#### GENERAL NOTES:

- EXISTING FEATURES ARE APPROXIMATE. THEY ARE BASED ON AVAILABLE AERIAL PHOTOS AND FIELD MEASUREMENTS.
- 2. ALL CONTRACTOR WORK ACTIVITIES SHALL REMAIN WITHIN EXISTING WSDOT RIGHT OF WAY, INCLUDING ANY ANCHORS OR ACCESS REQUIRED FOR SLOPE WORK.
- 3. INSTALL TEMPORARY EROSION AND SEDIMENT CONTROL (TESC) BEST MANAGEMENT PRACTICES (BMPS) IN ACCORDANCE WITH THE TESC NARRATIVE (APPENDIX C).
- 4. ALL STATIONS ARE APPROXIMATE.
- 5. ALL UTILITY LOCATIONS ARE APPROXIMATE.

FILE NAME	G:\Engineering\PE201\Projects	\SR 17\23B013, SR	17 Soap La	ake to Lake	Lenore Cave	es- Unstable	Slope	s\Ad\CA	DD\XL6	412_CAD Files\02 - Plan Shee	ets\XL6412_ <u>PS_</u> Slope 2.dgn
TIME	4:24:32 PM							REGION NO.	STATE	FED.AID PROJ.NO.	LIAM
DATE	3/9/2023								WASH		NASHING Z
PLOTTED BY	LedbetB							יי ן	WASH		
DESIGNED BY	A. SCHULTZ								IUMBER		Turt Dunnan
ENTERED BY	K. CRONENWETT							23B	013		56344
CHECKED BY	K. WISEMAN							CONTR	RACT NO.	LOCATION NO.	SONAL ENGIN
PROJ. ENGR.	M. CASTILLO							1		XL-6412	SEE CT
REGIONAL ADM.	D. BIERSCHBACH		REVISIO	N		DATE	BY			XE 0412	P.E. STAMP BOX





	SR 17											
SOAP	LAKE	то	LAKE	LENORE	CAVES							
	UN	STA	BLE S	LOPES								

SLOPE 2 SITE PLAN

SHEET

12

OF

65

SHEETS

Plot 1
PLAN REF NO
2SP1

- ACCESS TO ALL SLOPES IS ONLY AVAILABLE FROM THE ROADWAY.
- SEE SHEET RS1 AND MD1 FOR PAVEMENT REPAIR AND GUARDRAIL PROTECTION DETAILS ASSOCIATED WITH ROCK SCALING OPERATIONS.

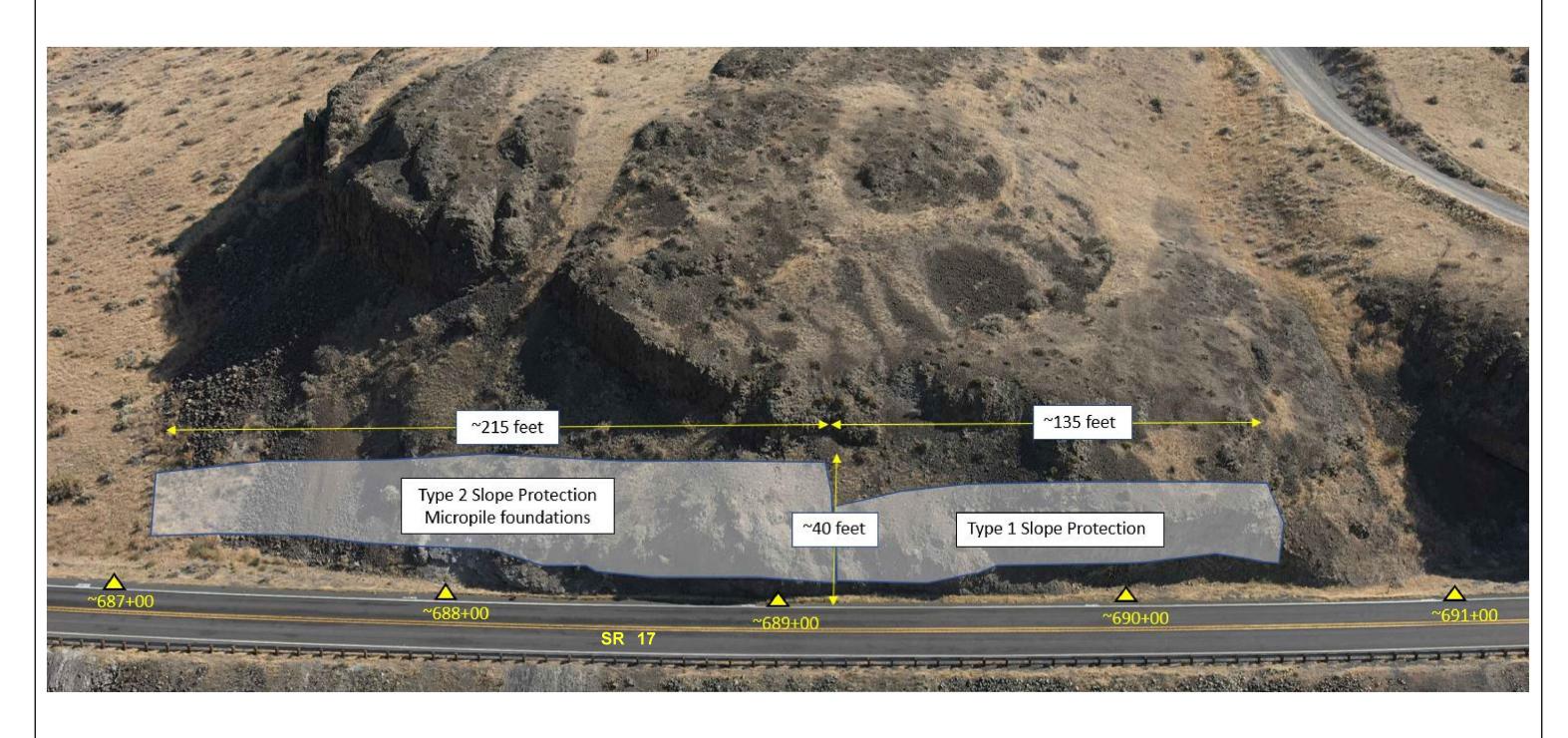
T. 22N. R. 27E. W.M. SECTION 18 SLOPE 2



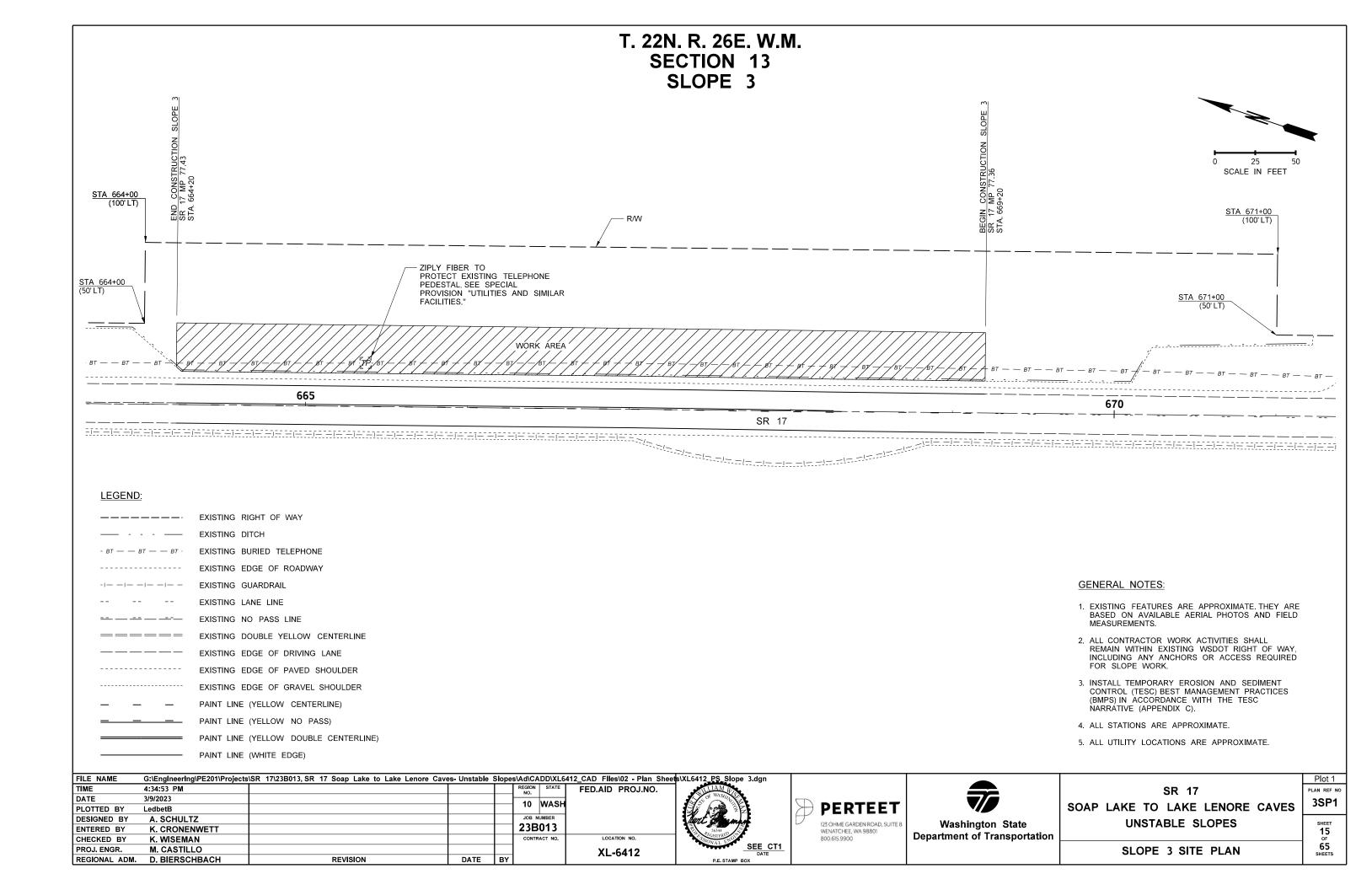
FILE NAME	G:\Englneering\PE201\Projects\SR 17\23B013, SR 17 Soap Lake to Lake Lenore Ca	ves- Unstable	Slopes\Ad	d\CADD\XL64	412_CAD Files\02 - Plan Sheet	ts\XL6412_PS_Slope 2.dgn				Plot 2
TIME	4:24:32 PM		REGI	GION STATE	FED.AID PROJ.NO.	of Washing			SR 17	PLAN REF NO
DATE	3/9/2023		1	10 WASH		00			1	2ST1
PLOTTED BY	LedbetB		''	IU WASH		8	> PERTEET		SOAP LAKE TO LAKE LENORE CAVES	2011
DESIGNED BY	A. SCHULTZ			JOB NUMBER		Engineering Geologist	123 OHME GARDEN ROAD, SUITE 8	Washington State	UNSTABLE SLOPES	SHEET
ENTERED BY	K. CRONENWETT		23	23B013		Ce 2869 000	WENATCHEE, WA 98801			13
CHECKED BY	K. WISEMAN		cc	CONTRACT NO.	LOCATION NO.	Cabriell Taylor	800.615.9900	Department of Transportation		_ OF
PROJ. ENGR.	M. CASTILLO				XL-6412	Gabriel L. Taylor SEE CT1			SLOPE 2 STABILIZATION PLAN	65 SHEETS
REGIONAL ADM	D RIERSCHBACH REVISION	DATE	BV		AL 0712	DE STAND BOY				SHEETS

- 1. ACCESS TO ALL SLOPES ONLY AVAILABLE FROM THE ROADWAY.
- SEE SPECIAL PROVISION "PERMANENT GROUND ANCHORS," "TYPE 1 SLOPE PROTECTION," AND "TYPE 2 SLOPE PROTECTION" FOR NETTING AND ANCHORING INFORMATION AND REQUIREMENTS.

T. 22N. R. 27E. W.M. SECTION 18 SLOPE 2

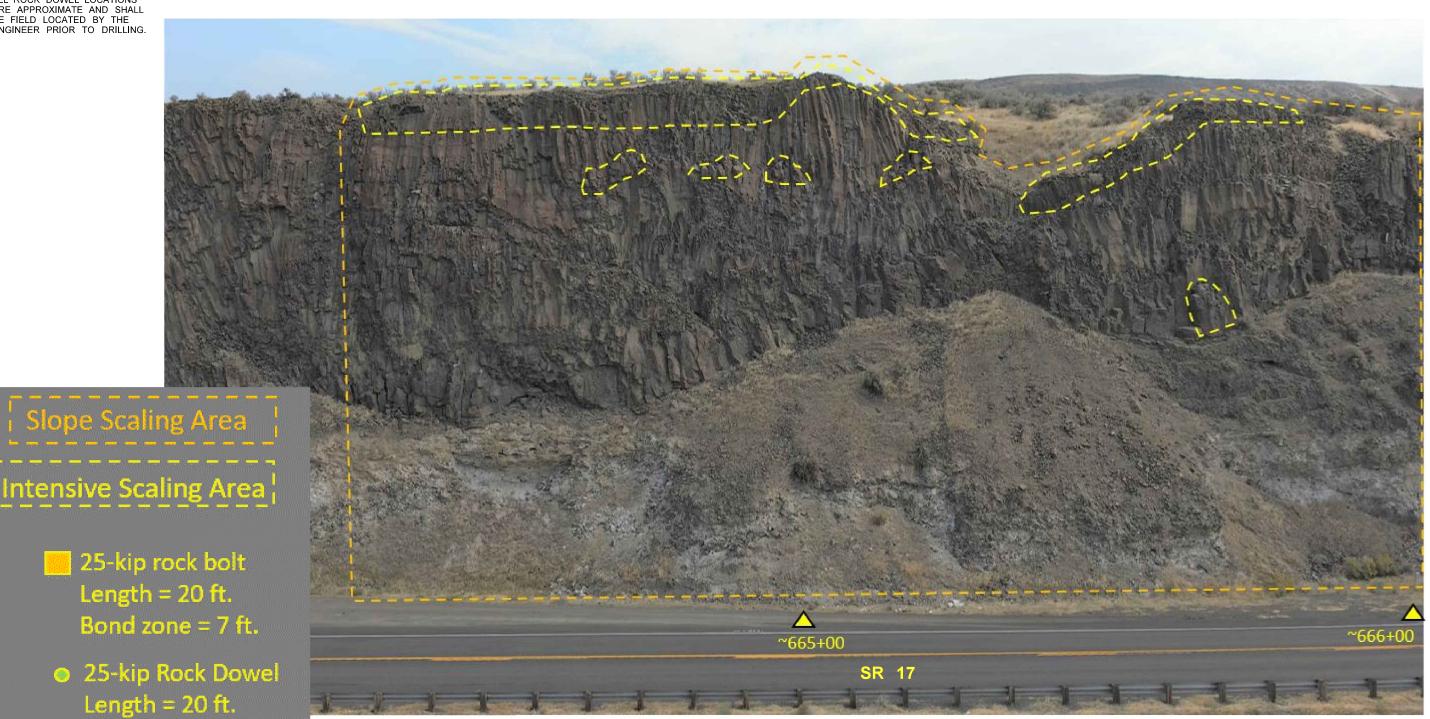


FILE NAME	G:\Engineering\PE201\Projects	s\SR 17\23B013, SR 17 Soap Lake to Lake Lenore Cave	es- Unstable	Slopes\Ad\CADD\XL6	412_CAD Files\02 - Plan Shee	ets\XL6412_PS_Slope 2.dgn				Plot 3
TIME	4:24:33 PM			REGION STATE	FED.AID PROJ.NO.	of Washing			SR 17	PLAN REF NO
DATE	3/9/2023			10 WASH		000			J	2ST2
PLOTTED BY	LedbetB			T 10 WASH		8	PERTEET		SOAP LAKE TO LAKE LENORE CAVES	2012
DESIGNED BY	A. SCHULTZ			JOB NUMBER		Engineering Geologist	123 OHME GARDEN ROAD, SUITE 8	Washington State	UNSTABLE SLOPES	SHEET
ENTERED BY	K. CRONENWETT			23B013		2869	WENATCHEE, WA 98801	9		14
CHECKED BY	K. WISEMAN			CONTRACT NO.	LOCATION NO.	Cobiell Tender	800.615.9900	Department of Transportation		_ OF
PROJ. ENGR.	M. CASTILLO				XL-6412	Gabriel L. Taylor SEE CT1			SLOPE 2 STABILIZATION PLAN	65 SHEETS
DECIONAL ADM	D DIEDECHDACH	DEVISION	DATE	DV	AL UTIL	DATE	1			SINCEIS



- ACCESS TO ALL SLOPES IS ONLY AVAILABLE FROM THE ROADWAY.
- SEE SHEET RS1 AND MD1 FOR PAVEMENT REPAIR AND GUARDRAIL PROTECTION DETAILS ASSOCIATED WITH ROCK SCALING OPERATIONS.
- ALL ROCK DOWEL LOCATIONS ARE APPROXIMATE AND SHALL BE FIELD LOCATED BY THE ENGINEER PRIOR TO DRILLING.

T. 22N. R. 26E. W.M. SECTION 13 SLOPE 3



FILE NAME	G:\EngIneerIng\PE201\Projects\S	R 17\23B013, SR	17 Soap Lake to	Lake Lenore	Caves- Unstable	Slope	s\Ad\CA	DD\XL64	12_CAD Files\0	12 - Plan S	heets\XL6412_PS_Slope 3.dgi
TIME	4:34:54 PM						REGION	STATE	FED.AID P	ROJ.NO.	of Washing

DATE 3/9/2023 10 WASH PLOTTED BY LedbetB JOB NUMBER DESIGNED BY A. SCHULTZ 23B013 K. CRONENWETT ENTERED BY CHECKED BY K. WISEMAN CONTRACT NO. LOCATION NO. PROJ. ENGR. M. CASTILLO XL-6412 REGIONAL ADM. D. BIERSCHBACH REVISION DATE



NOT TO SCALE



	<b>7</b>
8	Washington State
	Department of Transportation

SR 17	
SOAP LAKE TO LAKE LENOR	E CAVES
UNSTABLE SLOPES	

**SLOPE 3 STABILIZATION PLAN** 

16 OF 65 SHEETS

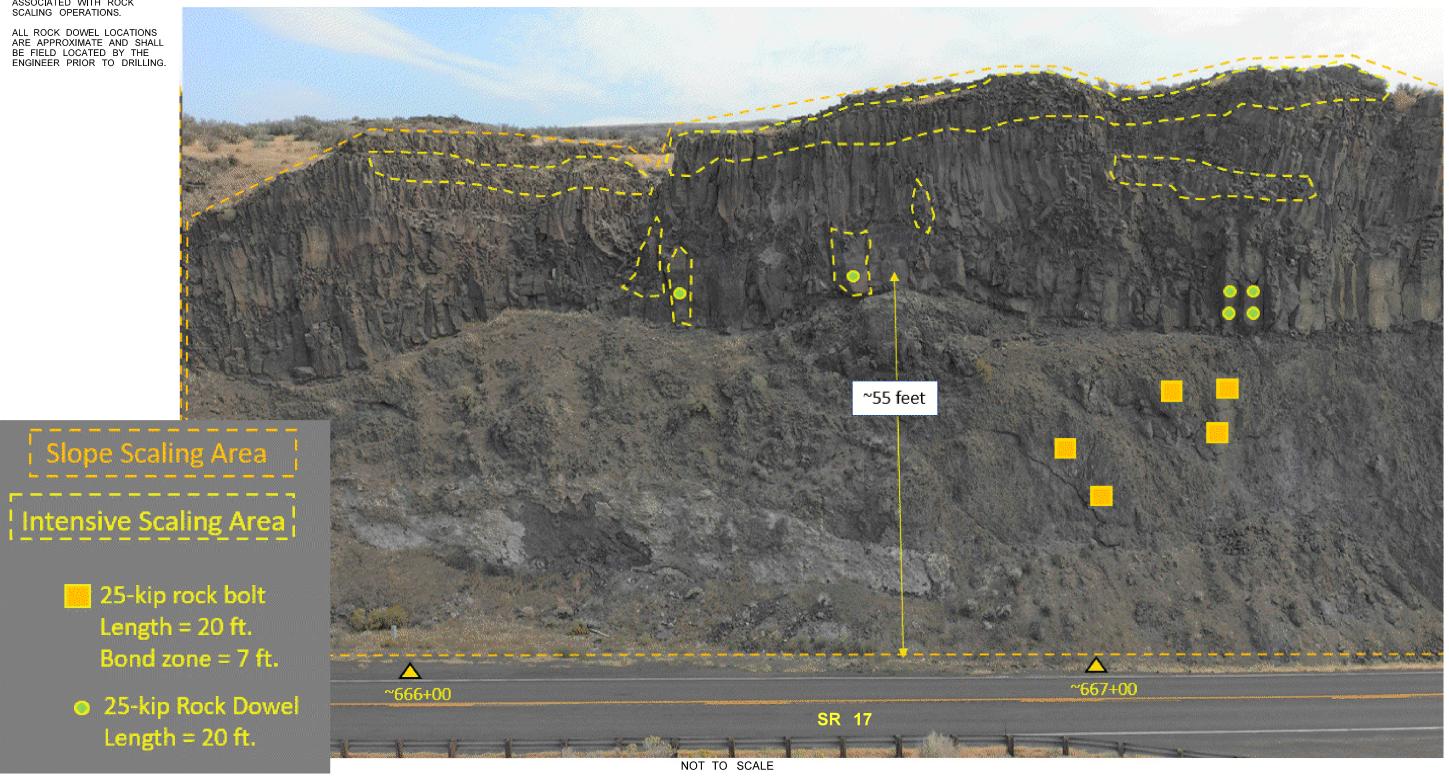
Plot 2 PLAN REF NO

3ST1

- ACCESS TO ALL SLOPES IS ONLY AVAILABLE FROM THE ROADWAY.
- SEE SHEET RS1 AND MD1 FOR PAVEMENT REPAIR AND GUARDRAIL PROTECTION DETAILS ASSOCIATED WITH ROCK SCALING OPERATIONS.

REGIONAL ADM. D. BIERSCHBACH

T. 22N. R. 26E. W.M. SECTION 13 SLOPE 3



FILE NAME	G:\EngIneering\PE201\Projects	SISR 17\23B013, SR 17 Soap Lake to Lake Lenore Cave	es- Unstable	Slope	s\Ad\CADD\X	L6412_CAD Files\02 - Plan Shee	ts\XL6412_PS_Slope 3.dgn	
TIME	4:34:55 PM				REGION STAT	FED.AID PROJ.NO.	of Washing	ĺ
DATE	3/9/2023				10 WAS		05	
PLOTTED BY	LedbetB				10 WAS	PT	<b>*</b>	$\vdash$
DESIGNED BY	A. SCHULTZ				JOB NUMBER		Engineering Geologist	1
ENTERED BY	K. CRONENWETT				23B013		Censed Geologe	
CHECKED BY	K. WISEMAN				CONTRACT NO	LOCATION NO.		İ
PROJ. ENGR.	M. CASTILLO					XL-6412	Gabriel L. Taylor SEE CT1	l
DECIONAL ADM	D DIEDECHDACH	BEVISION	DATE	DV		/ /L UTIZ	DATE	1

REVISION

DATE BY



8	Washington State Department of Transportation

SR 17	
SOAP LAKE TO LAKE LENOR	E CAVES
UNSTABLE SLOPES	

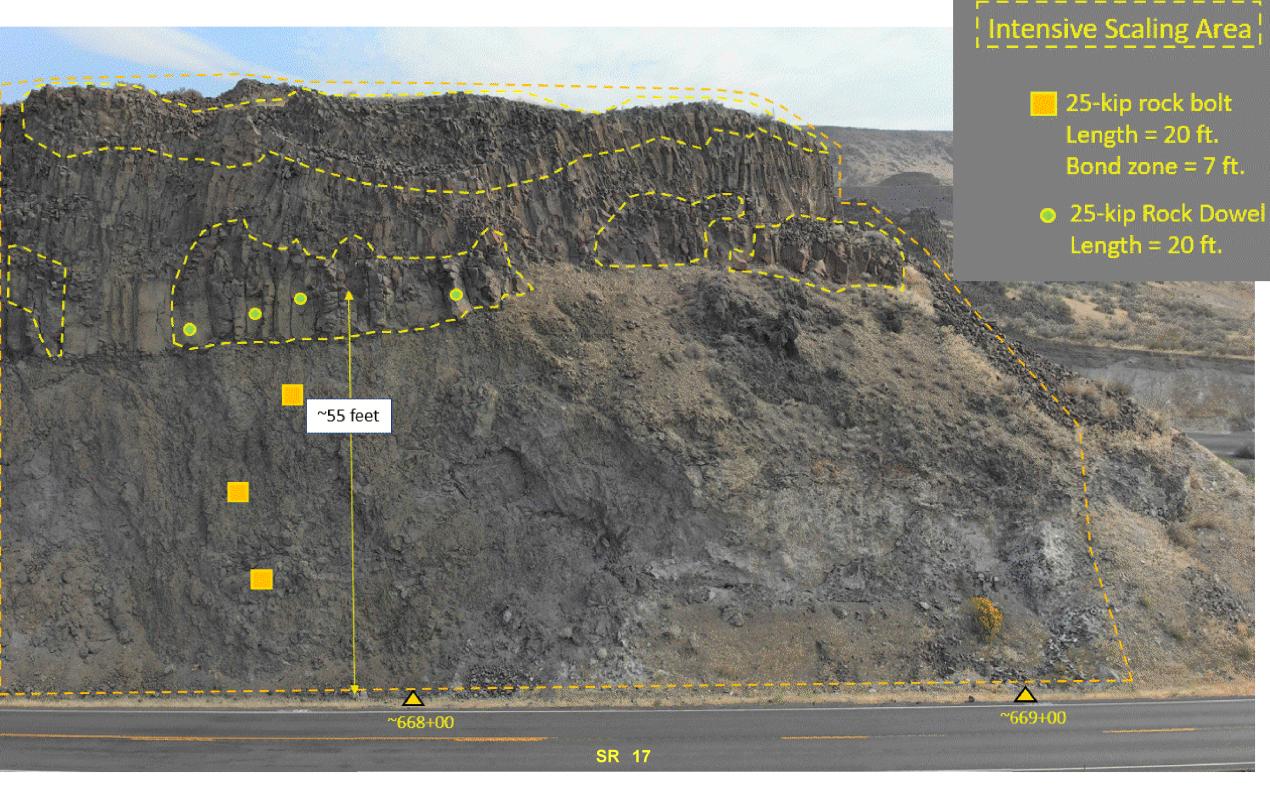
**SLOPE 3 STABILIZATION PLAN** 

Plot 3 PLAN REF NO 3ST2

> 17 65 SHEETS

- ACCESS TO ALL SLOPES IS ONLY AVAILABLE FROM THE ROADWAY.
- 2. SEE SHEET RS1 AND MD1 FOR PAVEMENT REPAIR AND GUARDRAIL PROTECTION DETAILS ASSOCIATED WITH ROCK SCALING OPERATIONS.
- 3. ALL ROCK DOWEL LOCATIONS ARE APPROXIMATE AND SHALL BE FIELD LOCATED BY THE ENGINEER PRIOR TO DRILLING.

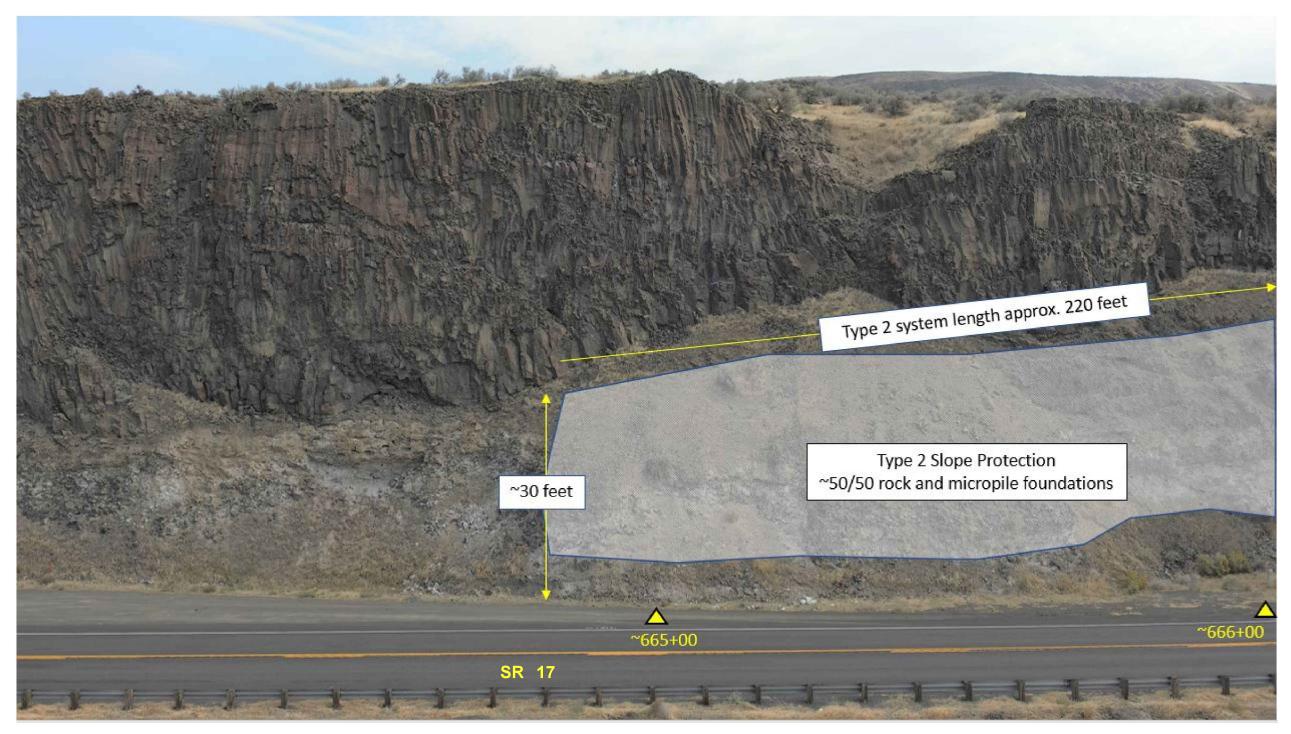
T. 22N. R. 26E. W.M. SECTION 13 SLOPE 3



FILE NAME	G:\Engineering\PE201\Projects	SISR 17\23B013, SR 17 Soap Lake to Lake Lenore Cave	es- Unstable	Slope	s\Ad\CADD\XL6	412_CAD Files\02 - Plan Shee	ts\XL6412_PS_Slope 3.dgn				Plot 4	
TIME	4:34:56 PM				REGION STATE	FED.AID PROJ.NO.	of Washing			SR 17	PLAN REF NO	۰.
DATE	3/9/2023				10 WASH		85				3ST3	
PLOTTED BY	LedbetB				IU WASH		8	PERTEET		SOAP LAKE TO LAKE LENORE CAVES	1 3013	
DESIGNED BY	A. SCHULTZ				JOB NUMBER		Engineering Geologist	123 OHME GARDEN ROAD, SUITE 8	Washington State	UNSTABLE SLOPES	SHEET	П
ENTERED BY	K. CRONENWETT				23B013		2869 100	WENATCHEE, WA 98801	3		18	
CHECKED BY	K. WISEMAN				CONTRACT NO.	LOCATION NO.	October 7	800.615.9900	Department of Transportation		OF_	
PROJ. ENGR.	M. CASTILLO					XL-6412	Gabriel L. Taylor SEE CT1			SLOPE 3 STABILIZATION PLAN	65 SHEETS	
REGIONAL ADM.	D. BIERSCHBACH	REVISION	DATE	BY		XE 3412	P.E. STAMP BOX				Sileers	

T. 22N. R. 26E. W.M. SECTION 13 SLOPE 3

- 1. ACCESS TO ALL SLOPES ONLY AVAILABLE FROM THE ROADWAY.
- 2. SEE SPECIAL PROVISION "PERMANENT GROUND ANCHORS,"
  "TYPE 1 SLOPE PROTECTION," AND "TYPE 2 SLOPE PROTECTION"
  FOR NETTING AND ANCHORING INFORMATION AND REQUIREMENTS.



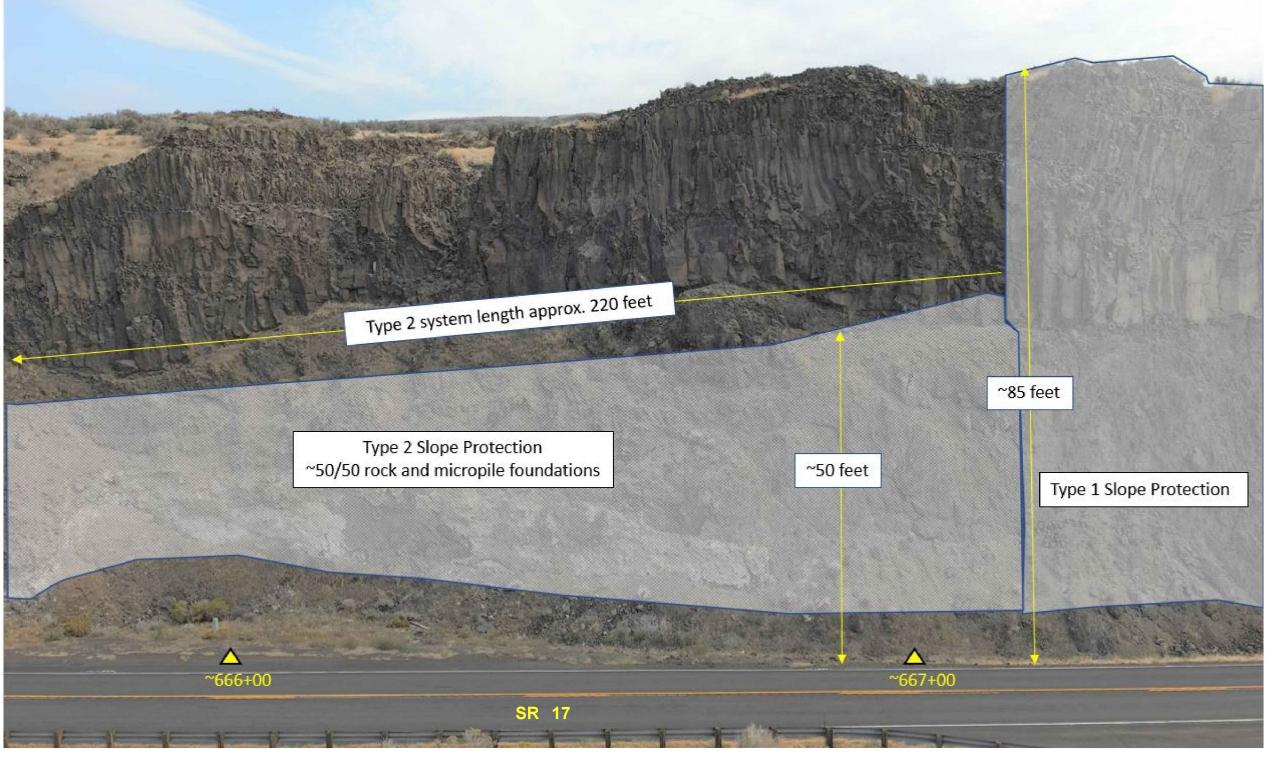
NOT TO SCALE

FILE NAME	G:\EngIneering\PE201\Projects	s\SR 17\23B013, SR 17 Soap Lake to Lake Lenore Cave	es- Unstable	Slopes\Ad\CADD\XL6	412_CAD Files\02 - Plan Shee	ts\XL6412_PS_Slope 3.dgn				Plot 5
TIME	4:34:58 PM			REGION STATE	FED.AID PROJ.NO.	of Washing			SR 17	PLAN REF NO
DATE	3/9/2023			10 WASH		000			J	3ST4
PLOTTED BY	LedbetB			T 10 WASH		8	PERTEET		SOAP LAKE TO LAKE LENORE CAVES	7017
DESIGNED BY	A. SCHULTZ			JOB NUMBER		Engineering Geologist	123 OHME GARDEN ROAD, SUITE 8	Washington State	UNSTABLE SLOPES	SHEET
ENTERED BY	K. CRONENWETT			23B013		2869	WENATCHEE, WA 98801	3		19
CHECKED BY	K. WISEMAN			CONTRACT NO.	LOCATION NO.	Schiell Today	800.615.9900	Department of Transportation		_ OF
PROJ. ENGR.	M. CASTILLO				XL-6412	Gabriel L. Taylor SEE CT1			SLOPE 3 STABILIZATION PLAN	65 SHEETS
REGIONAL ADM.	D. BIERSCHBACH	REVISION	DATE	BY	7L 3712	P.E. STAMP BOX				SILEIS

- T. 22N. R. 26E. W.M.
- SEE SPECIAL PROVISION "PERMANENT GROUND ANCHORS,"
  "TYPE 1 SLOPE PROTECTION," AND "TYPE 2 SLOPE PROTECTION"
  FOR NETTING AND ANCHORING INFORMATION AND REQUIREMENTS.

1. ACCESS TO ALL SLOPES ONLY AVAILABLE FROM THE ROADWAY.

SECTION 13 SLOPE 3

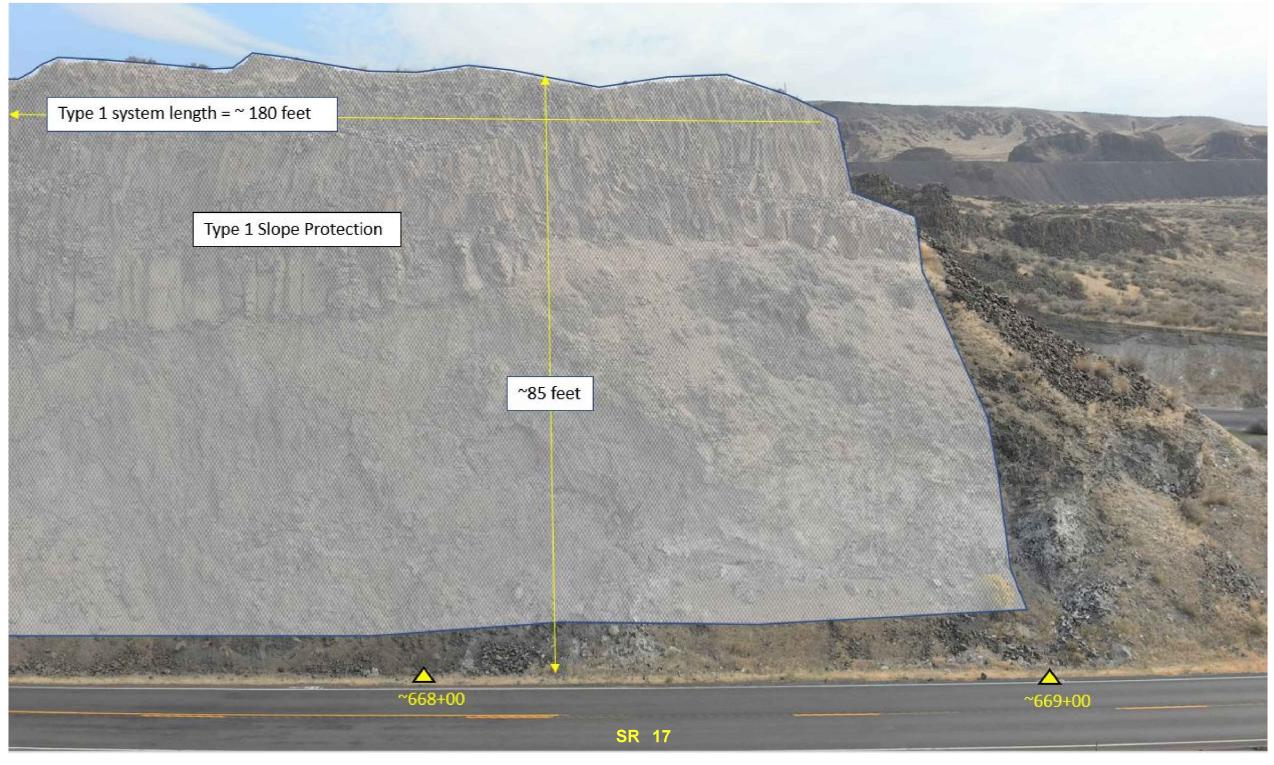


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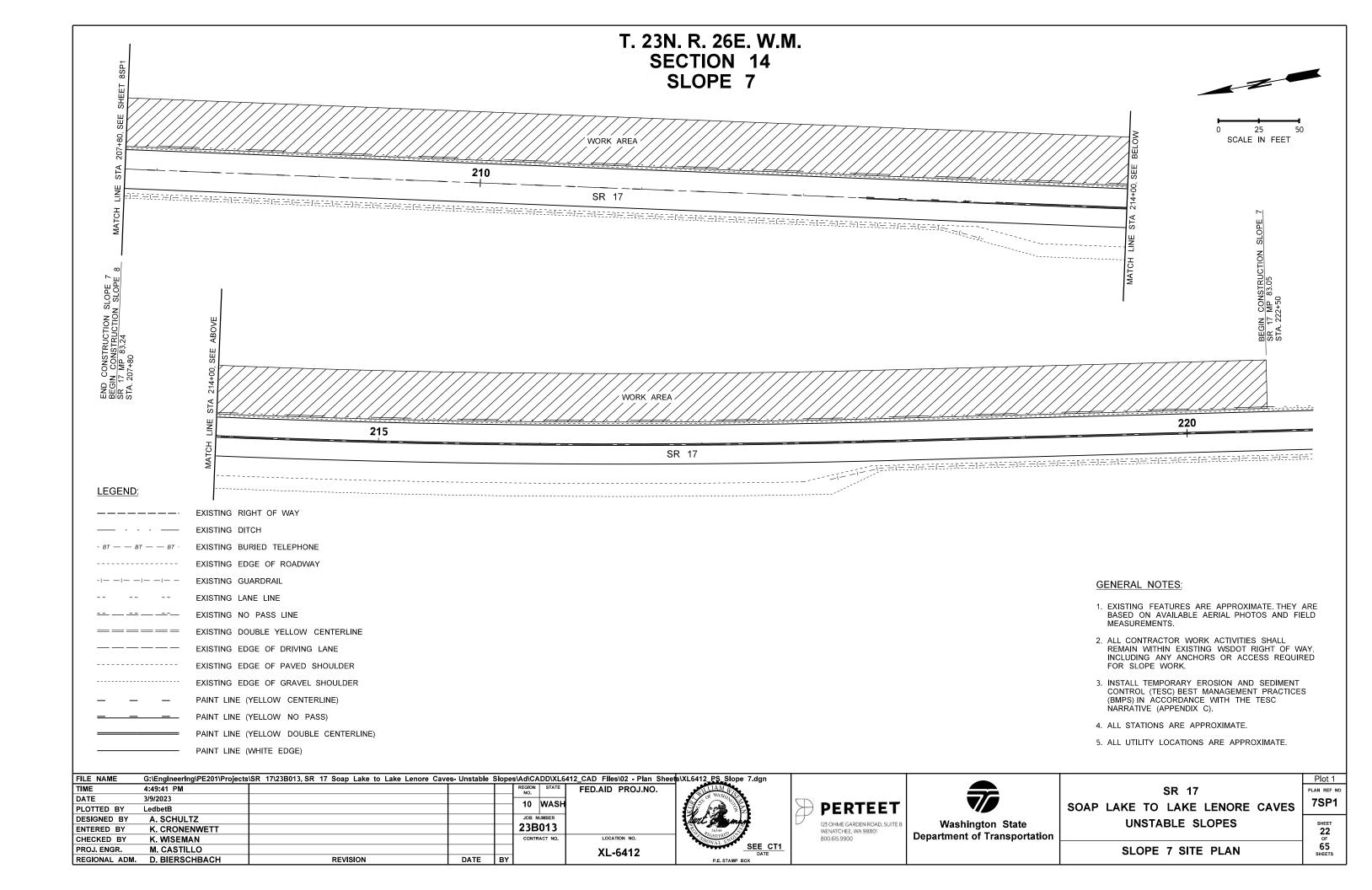
FILE NAME	G:\EngIneerIng\PE201\Projects	SISR 17\23B013, SR 17 Soap Lake to Lake Lenore Cave	es- Unstable	Slopes\Ad\CADD\XL64	412_CAD Files\02 - Plan Shee	s\XL6412_PS_Slope 3.dgn				Plot 6
TIME	4:34:59 PM			REGION STATE	FED.AID PROJ.NO.	of Washing			SR 17	PLAN REF NO
DATE	3/9/2023			10 WASH		000	□		J	3ST5
PLOTTED BY	LedbetB			III WASH		* * * * * * * * * * * * * * * * * * * *	PERTEET		SOAP LAKE TO LAKE LENORE CAVES	1 3013
DESIGNED BY	A. SCHULTZ			JOB NUMBER		Engineering Geologist	123 OHME GARDEN ROAD, SUITE 8	l	UNSTABLE SLOPES	SHEET
ENTERED BY	K. CRONENWETT			23B013		2869 0098	WENATCHEE, WA 98801	J		20
CHECKED BY	K. WISEMAN			CONTRACT NO.	LOCATION NO.	and Geo.	800.615.9900	Department of Transportation		OF
PROJ. ENGR.	M. CASTILLO				XL-6412	Gabriel L. Taylor SEE CT1			SLOPE 3 STABILIZATION PLAN	65 SHEETS
REGIONAL ADM	D RIERSCHRACH	REVISION	DATE	RV	7L 0712	DE STAMP BOY	1			SHEETS

# T. 22N. R. 26E. W.M. SECTION 13 SLOPE 3

- 1. ACCESS TO ALL SLOPES ONLY AVAILABLE FROM THE ROADWAY.
- SEE SPECIAL PROVISION "PERMANENT GROUND ANCHORS,"
  "TYPE 1 SLOPE PROTECTION," AND "TYPE 2 SLOPE PROTECTION"
  FOR NETTING AND ANCHORING INFORMATION AND REQUIREMENTS.



FILE NAME	G:\Engineering\PE201\Projects	s\SR 17\23B013, SR 17 Soap Lake to Lake Lenore Cave	es- Unstable	Slope	s\Ad\CADD\XL6	412_CAD Files\02 - Plan Shee	ets\XL6412_PS_Slope 3.dgn					Plot 7
TIME	4:35:00 PM				REGION STATE	FED.AID PROJ.NO.	of Washing				SR 17	PLAN REF NO
DATE	3/9/2023				10 WASH		05					3ST6
PLOTTED BY	LedbetB				IU WASH		8	$\rightarrow$	PERTEET		SOAP LAKE TO LAKE LENORE CAVES	30.0
DESIGNED BY	A. SCHULTZ				JOB NUMBER		Engineering Geologist		137 OUME CARDEN BOAD SUITE 9	Washington State	UNSTABLE SLOPES	SHEET
ENTERED BY	K. CRONENWETT				23B013		2869 0098		123 OHME GARDEN ROAD, SUITE 8 WENATCHEE, WA 98801	9		21
CHECKED BY	K. WISEMAN				CONTRACT NO.	LOCATION NO.	Cobiell Toulor		800.615.9900	Department of Transportation		OF
PROJ. ENGR.	M. CASTILLO					XL-6412	Gabriel L. Taylor SEE CT1				SLOPE 3 STABILIZATION PLAN	65 SHEETS
REGIONAL ADM.	D. BIERSCHBACH	REVISION	DATE	BY		XE 0412	P.E. STAMP BOX					SILETO



- ACCESS TO ALL SLOPES IS ONLY AVAILABLE FROM THE ROADWAY.
- SEE SHEET RS1 AND MD1 FOR PAVEMENT REPAIR AND GUARDRAIL PROTECTION DETAILS ASSOCIATED WITH ROCK SCALING OPERATIONS.

T. 23N. R. 26E. W.M. SECTION 14 SLOPE 7



FILE NAME	G:\Engineering\PE201\Projects\SR 17\23B013, SR 17 Soap Lake to Lake Lenore Ca	ves- Unstable	Slopes\Ad\	d\CADD\XL64	412_CAD Files\02 - Plan Shee	s\XL6412_PS_Slope 7.dgn				Plot 2
TIME	4:49:42 PM		REGI	GION STATE	FED.AID PROJ.NO.	of Washing			SR 17	PLAN REF NO
DATE	3/9/2023		10	10 WASH		Side Side Side Side Side Side Side Side	□			7ST1
PLOTTED BY	LedbetB		"	IU WASH		8 8 1	PERTEET		SOAP LAKE TO LAKE LENORE CAVES	1011
DESIGNED BY	A. SCHULTZ			JOB NUMBER		Engineering Geologist	123 OHME GARDEN ROAD, SUITE 8	Washington State	UNSTABLE SLOPES	SHEET
ENTERED BY	K. CRONENWETT		23	3B013		78.2869 NOVE	WENATCHEE, WA 98801	311111111111111111111111111111111111111		23
CHECKED BY	K. WISEMAN		co	CONTRACT NO.	LOCATION NO.	Cabriell Taylor	800.615.9900	Department of Transportation		OF
PROJ. ENGR.	M. CASTILLO				XL-6412	Gabriel L. Taylor SEE CT1			SLOPE 7 STABILIZATION PLAN	65 SHEETS
REGIONAL ADM	D BIERSCHBACH REVISION	DATE	RY		AL STIL	DE STAMP BOY				3112513

- ACCESS TO ALL SLOPES IS ONLY AVAILABLE FROM THE ROADWAY.
- SEE SHEET RS1 AND MD1 FOR PAVEMENT REPAIR AND GUARDRAIL PROTECTION DETAILS ASSOCIATED WITH ROCK SCALING OPERATIONS.

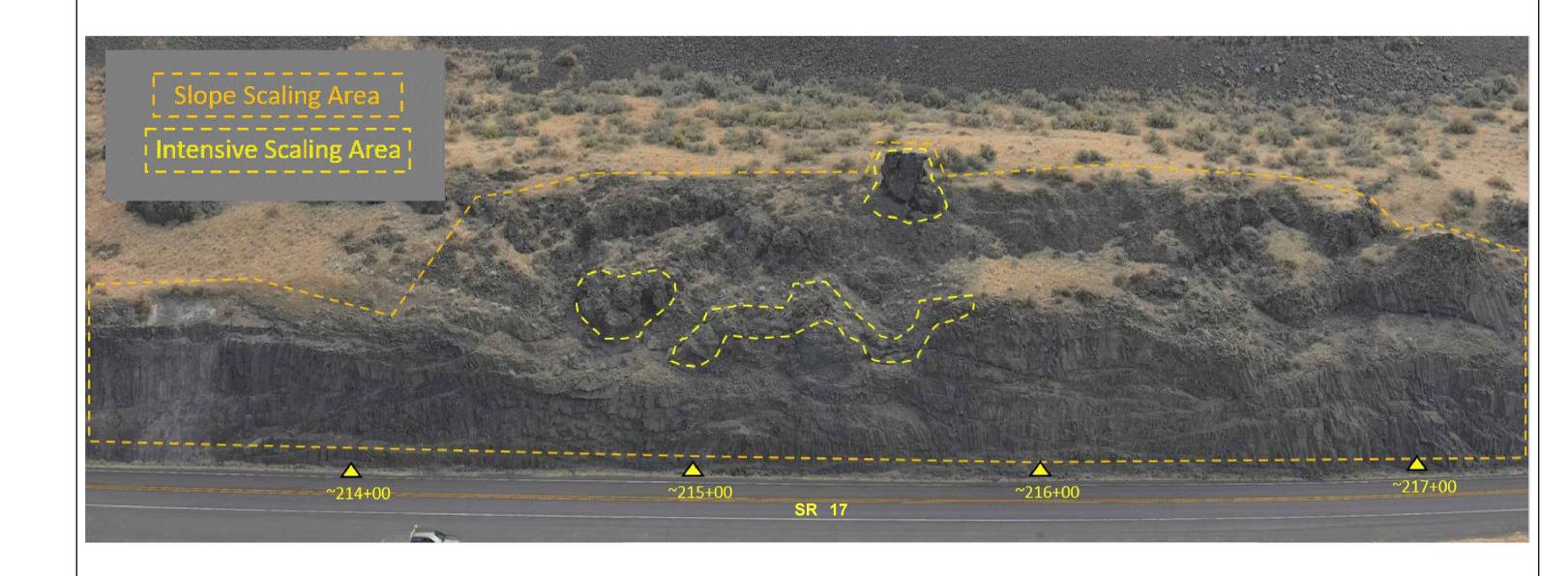
T. 23N. R. 26E. W.M. SECTION 14 SLOPE 7



FILE NAME	G:\Englneering\PE201\Projects\SR 17\23B013, SR 17 Soap Lake to Lake Lenore C	ves- Unstable	Slopes\/	Ad/CADD/XL6	412_CAD Files\02 - Plan Shee	sts\XL6412_PS_Slope 7.dgn				Plot 3
TIME	4:49:43 PM		F	REGION STATE	FED.AID PROJ.NO.	of Washing			SR 17	PLAN REF NO
DATE	3/9/2023			10 WASH		000				7ST2
PLOTTED BY	LedbetB			IU WASH		8	> PERTEET		SOAP LAKE TO LAKE LENORE CAVES	7012
DESIGNED BY	A. SCHULTZ			JOB NUMBER		Engineering Geologist	123 OHME GARDEN ROAD, SUITE 8	Washington State	UNSTABLE SLOPES	SHEET
ENTERED BY	K. CRONENWETT			23B013		2869 0000	WENATCHEE, WA 98801	1		24
CHECKED BY	K. WISEMAN			CONTRACT NO.	LOCATION NO.	Saprical Tourism	800.615.9900	Department of Transportation		OF
PROJ. ENGR.	M. CASTILLO				XL-6412	Gabriel L. Taylor SEE CT1			SLOPE 7 STABILIZATION PLAN	65 SHEETS
REGIONAL ADM	D RIERSCHBACH REVISION	DATE	BY		\_ \\_ \\\_	DE STAMP POY				3112213

- ACCESS TO ALL SLOPES IS ONLY AVAILABLE FROM THE ROADWAY.
- 2. SEE SHEET RS1 AND MD1 FOR PAVEMENT REPAIR AND GUARDRAIL PROTECTION DETAILS ASSOCIATED WITH ROCK SCALING OPERATIONS.

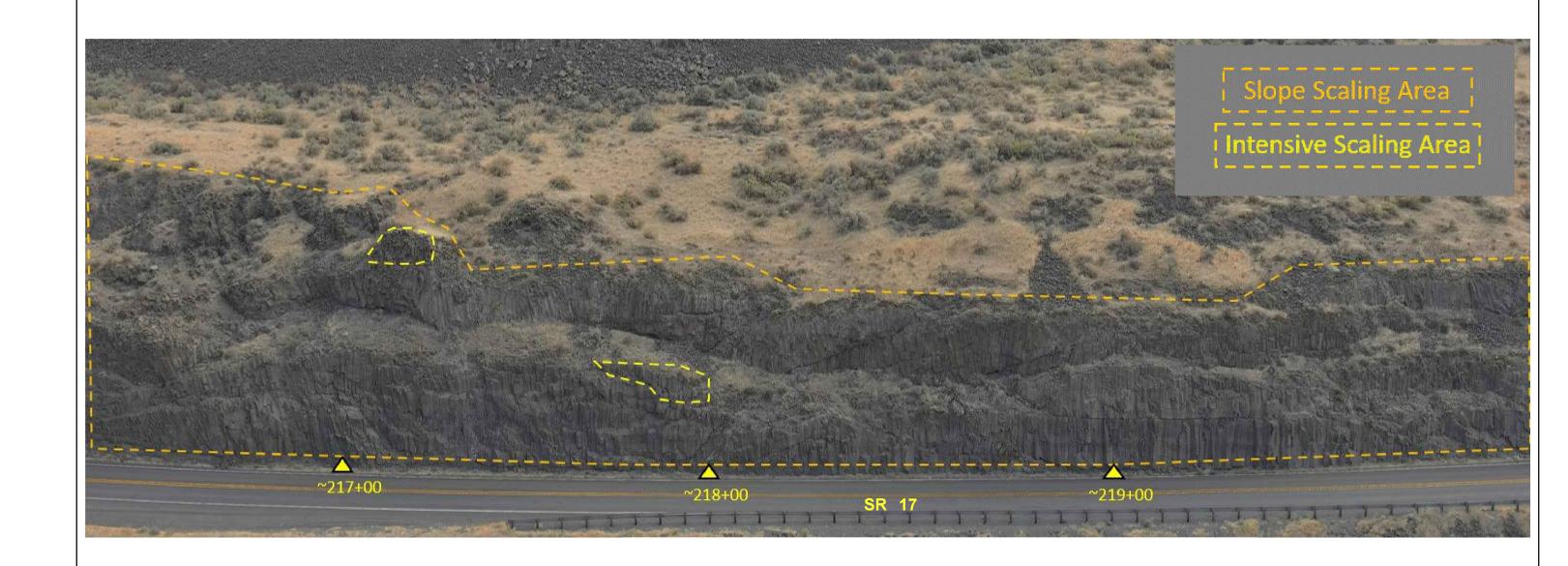
T. 23N. R. 26E. W.M. SECTION 14 SLOPE 7



FILE NAME	G:\Englneering\PE201\Projects\SR 17\23B013, SR 17 Soap Lake to Lake Lenore C	aves- Unstable	Slopes\A	Ad\CADD\XL6	412_CAD Files\02 - Plan Shee	sts\XL6412_PS_Slope 7.dgn				Plot 4
TIME	4:49:44 PM		R	REGION STATE	FED.AID PROJ.NO.	of Washing			SR 17	PLAN REF NO
DATE	3/9/2023			10 WASH		000				7ST3
PLOTTED BY	LedbetB			10 WASH		8	> PERTEET		SOAP LAKE TO LAKE LENORE CAVES	70.5
DESIGNED BY	A. SCHULTZ			JOB NUMBER		Engineering Geologist	123 OHME GARDEN ROAD, SUITE 8	Washington State	UNSTABLE SLOPES	SHEET
ENTERED BY	K. CRONENWETT		2	23B013		2869 10018	WENATCHEE, WA 98801			25
CHECKED BY	K. WISEMAN			CONTRACT NO.	LOCATION NO.	Sad Geo.	800.615.9900	Department of Transportation		OF OF
PROJ. ENGR.	M. CASTILLO				XL-6412	Gabriel L. Taylor SEE CT1			SLOPE 7 STABILIZATION PLAN	65 SHEETS
REGIONAL ADM	D BIERSCHBACH REVISION	DATE	BY		AL-0412	DE STAMP DOY				SHEETS

- ACCESS TO ALL SLOPES IS ONLY AVAILABLE FROM THE ROADWAY.
- SEE SHEET RS1 AND MD1 FOR PAVEMENT REPAIR AND GUARDRAIL PROTECTION DETAILS ASSOCIATED WITH ROCK SCALING OPERATIONS.

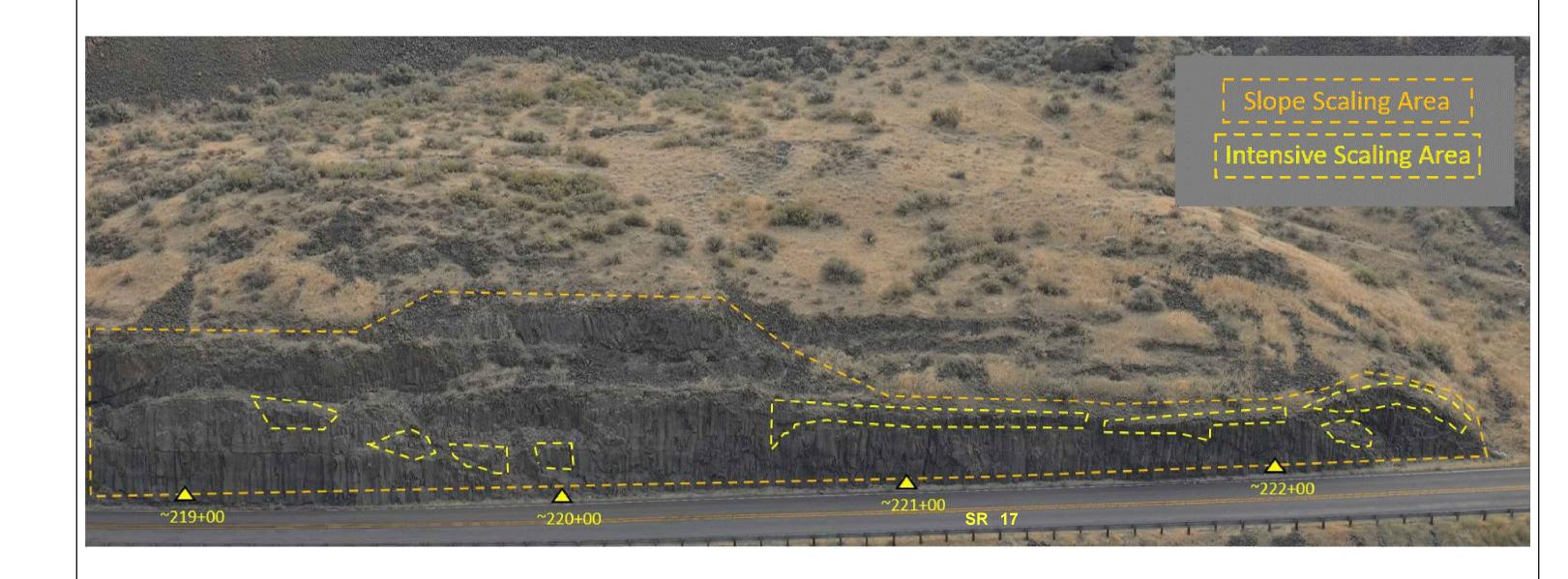
T. 23N. R. 26E. W.M. SECTION 14 SLOPE 7



FILE NAME	G:\Engineering\PE201\Projects	s\SR 17\23B013, SR 17 Soap Lake to Lake Lenore Cave	es- Unstable	Slopes\Ad\CADD\XL6	412_CAD Files\02 - Plan Shee	s\XL6412_PS_Slope 7.dgn				Plot 5
TIME	4:49:44 PM			REGION STATE	FED.AID PROJ.NO.	of Washing			SR 17	PLAN REF NO
DATE	3/9/2023			10 WASH		000				7ST4
PLOTTED BY	LedbetB			I IO WASH		8	PERTEET		SOAP LAKE TO LAKE LENORE CAVES	'017
DESIGNED BY	A. SCHULTZ			JOB NUMBER		Engineering Geologist	123 OHME GARDEN ROAD, SUITE 8	Washington State	UNSTABLE SLOPES	SHEET
ENTERED BY	K. CRONENWETT			23B013		2869	WENATCHEE, WA 98801	3		26
CHECKED BY	K. WISEMAN			CONTRACT NO.	LOCATION NO.	Schiell Taylor	800.615.9900	Department of Transportation		_ OF
PROJ. ENGR.	M. CASTILLO				XL-6412	Gabriel L. Taylor SEE CT1			SLOPE 7 STABILIZATION PLAN	65 SHEETS
REGIONAL ADM.	D. BIERSCHBACH	REVISION	DATE	BY	7L 3712	P.E. STAMP BOX				SILEETS

- ACCESS TO ALL SLOPES IS ONLY AVAILABLE FROM THE ROADWAY.
- SEE SHEET RS1 AND MD1 FOR PAVEMENT REPAIR AND GUARDRAIL PROTECTION DETAILS ASSOCIATED WITH ROCK SCALING OPERATIONS.

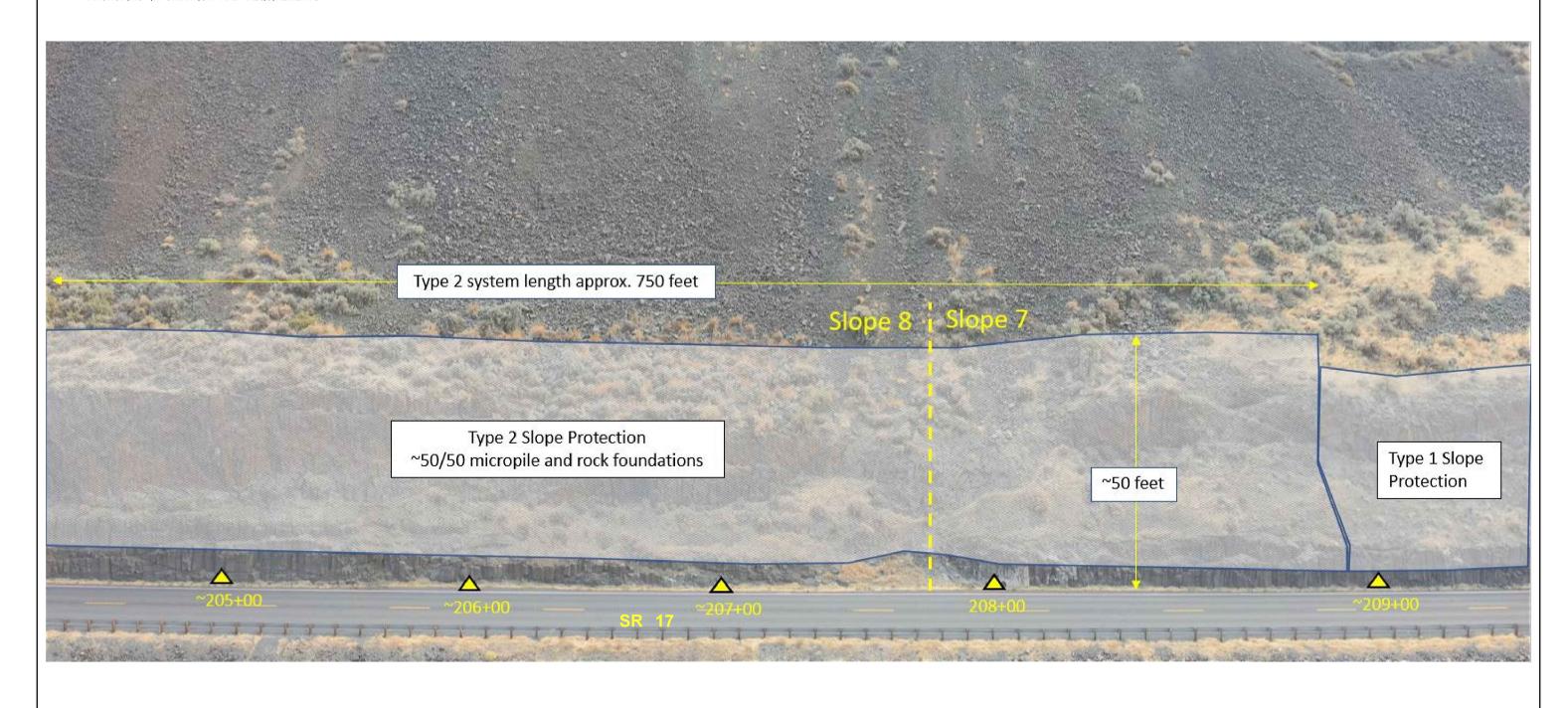
T. 23N. R. 26E. W.M. SECTION 14 SLOPE 7



FILE NAME	G:\EngIneerIng\PE201\Projects	SISR 17\23B013, SR 17 Soap Lake to Lake Lenore Cave	es- Unstable	Slopes\Ad\CADD\XL64	112_CAD Files\02 - Plan Sheet	ts\XL6412_PS_Slope 7.dgn					Plot 6
TIME	4:49:45 PM			REGION STATE	FED.AID PROJ.NO.	of Washing				SR 17	PLAN REF NO
DATE	3/9/2023			10 WASH		000					7ST5
PLOTTED BY	LedbetB			IU WASH		8	$\rightarrow$	PERTEET		SOAP LAKE TO LAKE LENORE CAVES	70.5
DESIGNED BY	A. SCHULTZ			JOB NUMBER		Engineering Geologist	137	OHME GARDEN ROAD, SUITE 8	Washington State	UNSTABLE SLOPES	SHEET
ENTERED BY	K. CRONENWETT			23B013		Ce780 1000		ENIATCHEE WA 98801	<b>3</b>	ONSTABLE SECTES	27
CHECKED BY	K. WISEMAN			CONTRACT NO.	LOCATION NO.	ed Geo	800	0.615.9900	Department of Transportation		OF
PROJ. ENGR.	M. CASTILLO				XL-6412	Gabriel L. Taylor SEE CT1				SLOPE 7 STABILIZATION PLAN	65 SHEETS
REGIONAL ADM.	D BIERSCHBACH	REVISION	DATE	RY	XL-0412	DE STAMP BOY					SHEETS

- 1. ACCESS TO ALL SLOPES ONLY AVAILABLE FROM THE ROADWAY.
- SEE SPECIAL PROVISION "PERMANENT GROUND ANCHORS," "TYPE 1 SLOPE PROTECTION," AND "TYPE 2 SLOPE PROTECTION" FOR NETTING AND ANCHORING INFORMATION AND REQUIREMENTS.

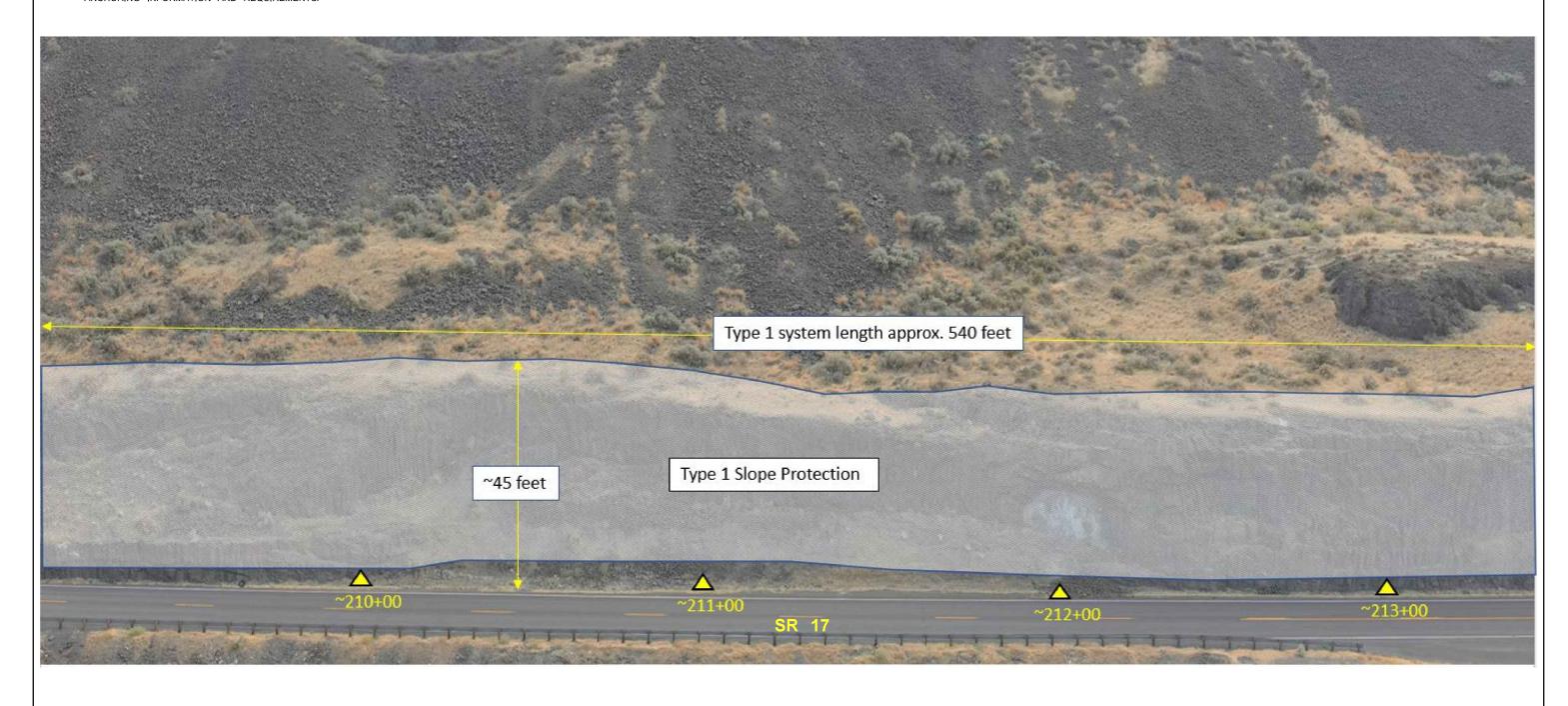
# T. 23N. R. 26E. W.M. SECTION 14 SLOPE 7



FILE NAME	G:\Engineering\PE201\Projects\SR 17\23B013, SR 17 So	ap Lake to Lake Lenore Caves-Unstar	pie Siope	es (AdiCADD)XL6	5412_CAD Files\U2 Pian Snee	ts\XL6412_PS_Slope /.agn					Plot /	
TIME	4:49:47 PM			REGION STATE	FED.AID PROJ.NO.	of Washing				SR 17	PLAN REF NO	, ]
DATE	3/9/2023			10 WASH	1	000					7ST6	
PLOTTED BY	LedbetB			IU WASH	]	8	$\rightarrow$	PERTEET		SOAP LAKE TO LAKE LENORE CAVES	10.0	
DESIGNED BY	A. SCHULTZ			JOB NUMBER		Engineering Geologist		123 OHME GARDEN ROAD, SUITE 8	Washington State	UNSTABLE SLOPES	SHEET	7
ENTERED BY	K. CRONENWETT			23B013		Cen 2869		MENIATCHEE WA 98801	3		28	1
CHECKED BY	K. WISEMAN			CONTRACT NO.	LOCATION NO.	Cabriell Taylor		800.615.9900	Department of Transportation		OF	-
PROJ. ENGR.	M. CASTILLO				XL-6412	Gabriel L. Taylor SEE CT1				SLOPE 7 STABILIZATION PLAN	65 SHEETS	
REGIONAL ADM.	. D. BIERSCHBACH RE	EVISION DATE	BY	1	/L 0412	P.E. STAMP BOX					SILETS	П

- 1. ACCESS TO ALL SLOPES ONLY AVAILABLE FROM THE ROADWAY.
- SEE SPECIAL PROVISION "PERMANENT GROUND ANCHORS," "TYPE 1 SLOPE PROTECTION," AND "TYPE 2 SLOPE PROTECTION" FOR NETTING AND ANCHORING INFORMATION AND REQUIREMENTS.

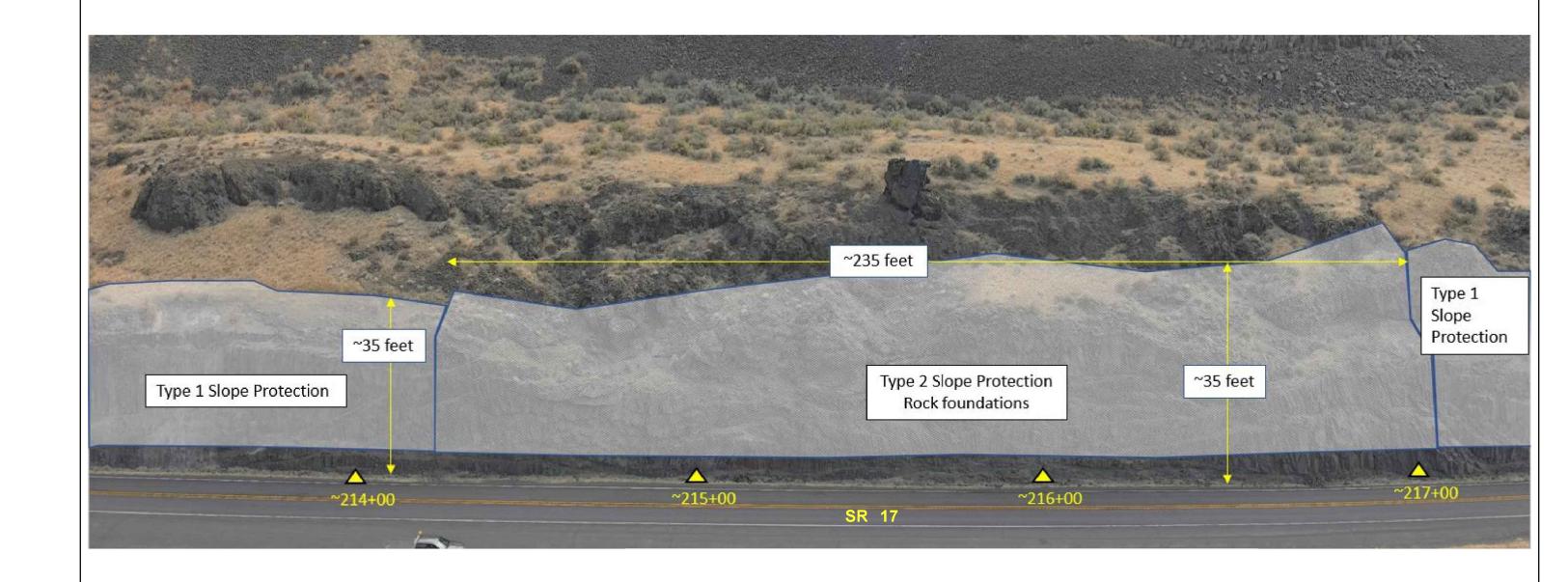
### T. 23N. R. 26E. W.M. SECTION 14 SLOPE 7



FILE NAME	G:\Engineering\PE201\Projects\SR 17\23B013, SR 17 Soap Lake to Lake Lenore Ca	ves- Unstable	Slopes\Ad\	d\CADD\XL64	412_CAD Files\02 - Plan Shee	ts\XL6412_PS_Slope 7.dgn				Plot 8
TIME	4:49:48 PM		REGI	GION STATE	FED.AID PROJ.NO.	of Washing			SR 17	PLAN REF NO
DATE	3/9/2023		10	IO WASH		65				7ST7
PLOTTED BY	LedbetB			IU WASH		8	PERTEET		SOAP LAKE TO LAKE LENORE CAVES	1,01,
DESIGNED BY	A. SCHULTZ			IOB NUMBER		Engineering Geologist	123 OHME GARDEN ROAD, SUITE 8	Washington State	UNSTABLE SLOPES	SHEET
ENTERED BY	K. CRONENWETT		23	3B013		Ce 2869 000	WENATCHEE, WA 98801	311111111111111111111111111111111111111		29
CHECKED BY	K. WISEMAN		co	CONTRACT NO.	LOCATION NO.	Cobriell Toulon	800.615.9900	Department of Transportation		OF
PROJ. ENGR.	M. CASTILLO				XL-6412	Gabriel L. Taylor SEE CT1			SLOPE 7 STABILIZATION PLAN	65 SHEETS
REGIONAL ADM	D RIERSCHBACH REVISION	DATE	BV		7E 0712	DE STAND BOY				3112213

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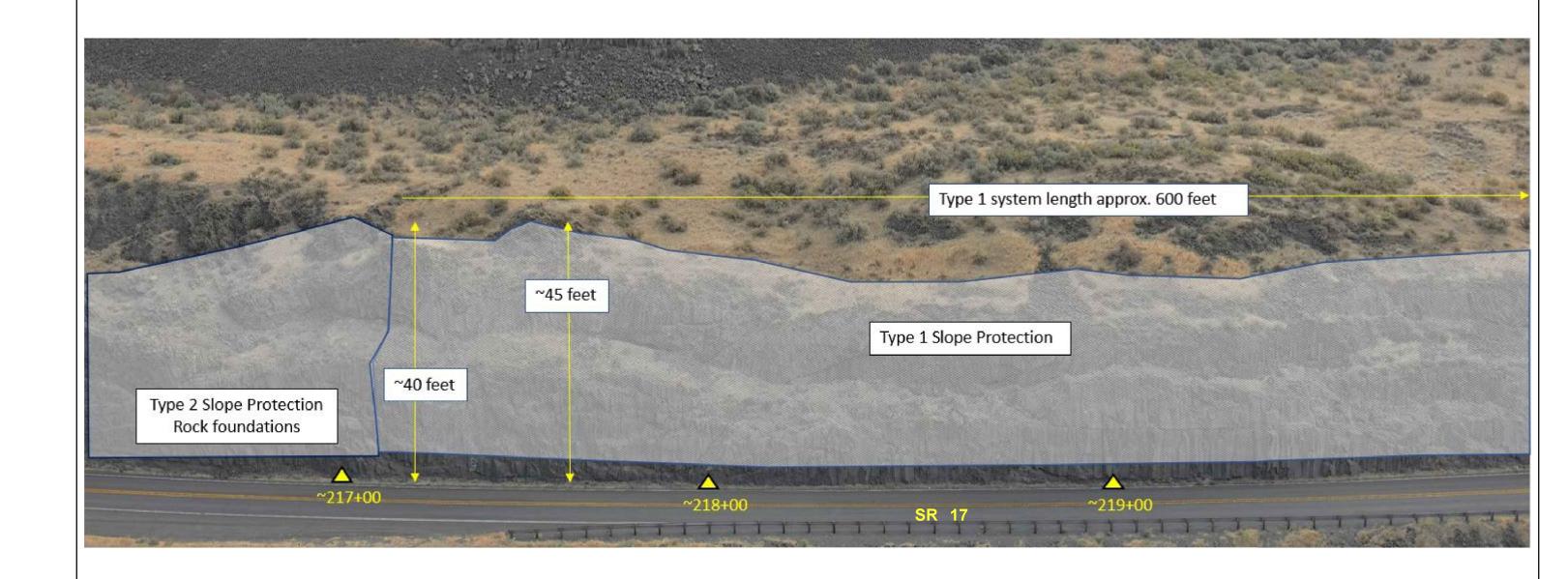
T. 23N. R. 26E. W.M. SECTION 14 SLOPE 7



FILE NAME	G:\Engineering\PE201\Projects	s\SR 17\23B013, SR 17 Soap Lake to Lake Lenore Cave	es- Unstable	Slopes\Ad\CADD\XL6	412_CAD Files\02 - Plan Shee	s\XL6412_PS_Slope 7.dgn				Plot 9
TIME	4:49:48 PM			REGION STATE	FED.AID PROJ.NO.	of Washing			SR 17	PLAN REF NO
DATE	3/9/2023			10 WASH		000				7ST8
PLOTTED BY	LedbetB			I IO WASH		8	> PERTEET		SOAP LAKE TO LAKE LENORE CAVES	1 ,0.0
DESIGNED BY	A. SCHULTZ			JOB NUMBER		Engineering Geologist	123 OHME GARDEN ROAD, SUITE 8	Washington State	UNSTABLE SLOPES	SHEET
ENTERED BY	K. CRONENWETT			23B013		2869	WENATCHEE, WA 98801	<b>3</b>		30
CHECKED BY	K. WISEMAN			CONTRACT NO.	LOCATION NO.	Schiell Today	800.615.9900	Department of Transportation		OF
PROJ. ENGR.	M. CASTILLO				XL-6412	Gabriel L. Taylor SEE CT1			SLOPE 7 STABILIZATION PLAN	65 SHEETS
REGIONAL ADM.	D. BIERSCHBACH	REVISION	DATE	BY	AL 0412	P.E. STAMP BOX				January 1

- 1. ACCESS TO ALL SLOPES ONLY AVAILABLE FROM THE ROADWAY.
- SEE SPECIAL PROVISION "PERMANENT GROUND ANCHORS," "TYPE 1 SLOPE PROTECTION," AND "TYPE 2 SLOPE PROTECTION" FOR NETTING AND ANCHORING INFORMATION AND REQUIREMENTS.

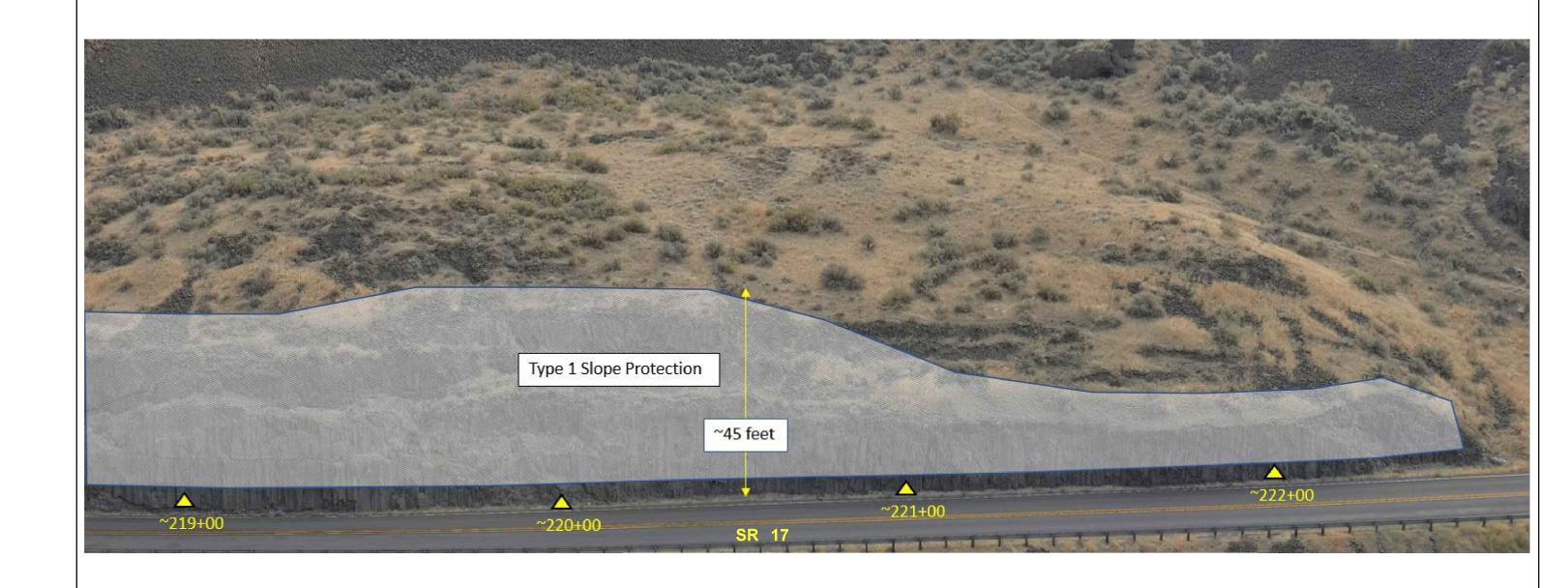
T. 23N. R. 26E. W.M. SECTION 14 SLOPE 7



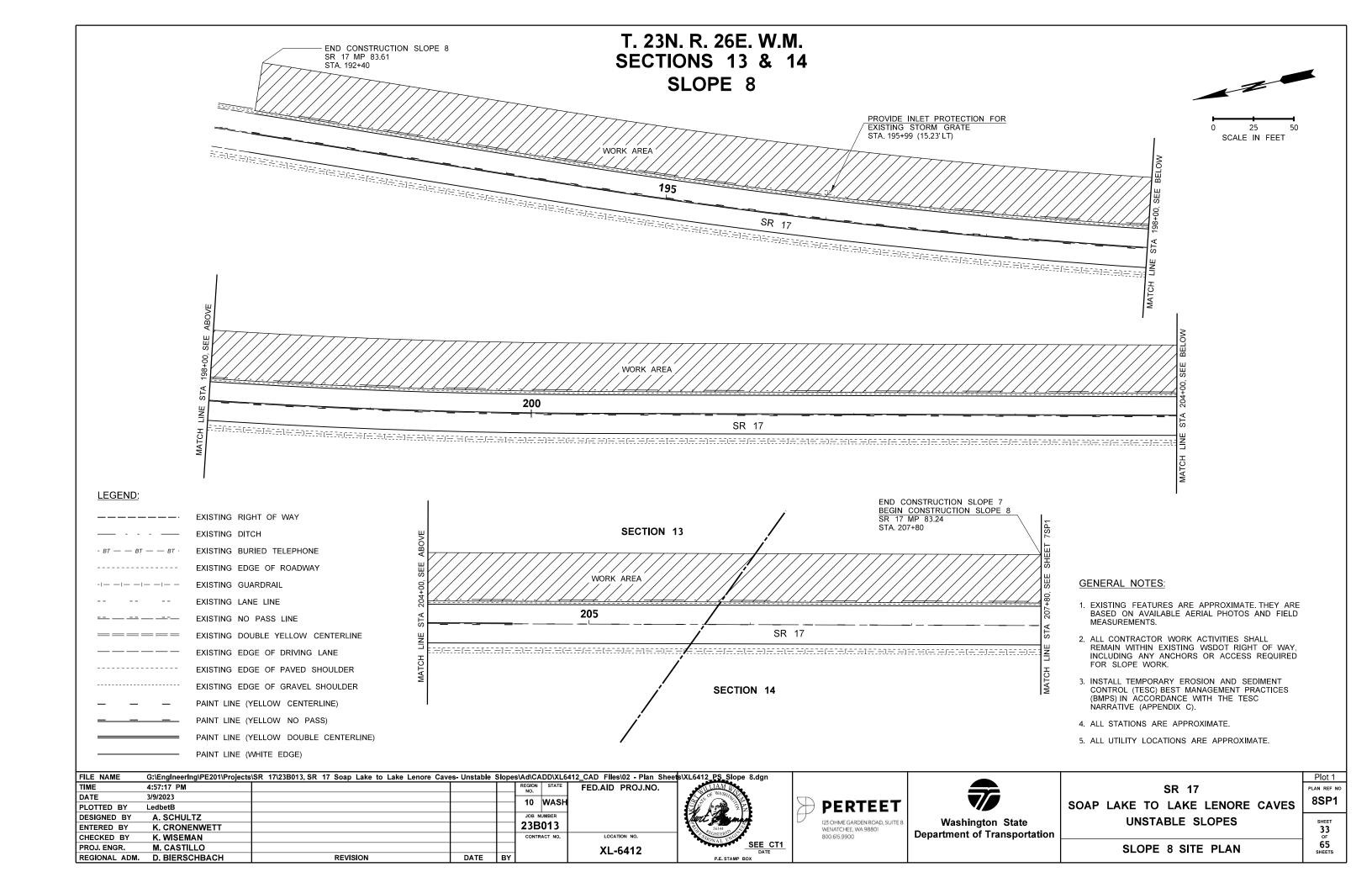
FILE NAME	G:\Engineering\PE201\Projects	s\SR 17\23B013, SR 17 Soap Lake to Lake Lenore Cav	es- Unstable	Slopes\Ad\CADD\XL6	412_CAD Files\02 - Plan Shee	ts\XL6412_PS_Slope 7.dgn				Plot 10
TIME	4:49:49 PM			REGION STATE	FED.AID PROJ.NO.	of Washing			SR 17	PLAN REF NO
DATE	3/9/2023			10 WASH		S. B.	□			7ST9
PLOTTED BY	LedbetB			T 10 WASH		8	PERTEET		SOAP LAKE TO LAKE LENORE CAVES	1 ,013
DESIGNED BY	A. SCHULTZ			JOB NUMBER		Engineering Geologist	123 OHME GARDEN ROAD, SUITE 8	Washington State	UNSTABLE SLOPES	SHEET
ENTERED BY	K. CRONENWETT			23B013		2869	WENATCHEE, WA 98801	3		31
CHECKED BY	K. WISEMAN			CONTRACT NO.	LOCATION NO.	Schiell Taylor	800.615.9900	Department of Transportation		OF
PROJ. ENGR.	M. CASTILLO				XL-6412	Gabriel L. Taylor SEE CT1			SLOPE 7 STABILIZATION PLAN	65 SHEETS
REGIONAL ADM.	D. BIERSCHBACH	REVISION	DATE	BY	AL 0412	P.E. STAMP BOX				31,5513

- 1. ACCESS TO ALL SLOPES ONLY AVAILABLE FROM THE ROADWAY.
- SEE SPECIAL PROVISION "PERMANENT GROUND ANCHORS," "TYPE 1 SLOPE PROTECTION," AND "TYPE 2 SLOPE PROTECTION" FOR NETTING AND ANCHORING INFORMATION AND REQUIREMENTS.

T. 23N. R. 26E. W.M. SECTION 14 SLOPE 7

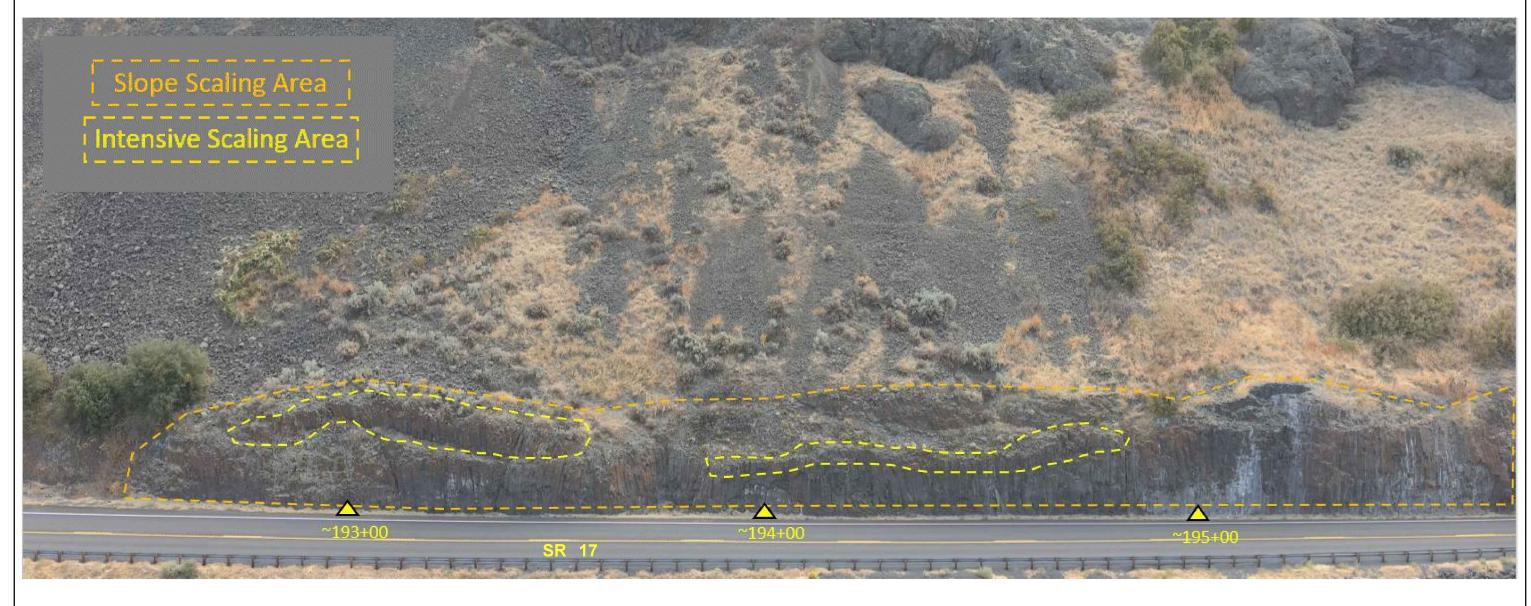


FILE NAME	G:\Englneering\PE201\Projects\SR 17\23B013, SR 17 Soap Lake to Lake Lenore C	ves- Unstable	Slopes\/	Ad/CADD/XL6	412_CAD Files\02 - Plan Shee	s\XL6412_PS_Slope 7.dgn				Plot 11
TIME	4:49:50 PM		F	REGION STATE	FED.AID PROJ.NO.	of Washing			SR 17	PLAN REF NO
DATE	3/9/2023		_	10 WASH		Sign Sign Sign Sign Sign Sign Sign Sign				7ST10
PLOTTED BY	LedbetB			IU WASH		8 8 1	> PERTEET		SOAP LAKE TO LAKE LENORE CAVES	70110
DESIGNED BY	A. SCHULTZ			JOB NUMBER		Engineering Geologist	123 OHME GARDEN ROAD, SUITE 8	Washington State	UNSTABLE SLOPES	SHEET
ENTERED BY	K. CRONENWETT			23B013		78.2869 NOVE	WENATCHEE, WA 98801	1		32
CHECKED BY	K. WISEMAN			CONTRACT NO.	LOCATION NO.	Cabriell Taylor	800.615.9900	Department of Transportation		OF
PROJ. ENGR.	M. CASTILLO				XL-6412	Gabriel L. Taylor SEE CT1			SLOPE 7 STABILIZATION PLAN	65 SHEETS
REGIONAL ADM	D RIERSCHBACH REVISION	DATE	BY		\_ \\_ \\\_	DE STAMP BOY				31,5513



- ACCESS TO ALL SLOPES IS ONLY AVAILABLE FROM THE ROADWAY.
- 2. SEE SHEET RS1 AND MD1 FOR PAVEMENT REPAIR AND GUARDRAIL PROTECTION DETAILS ASSOCIATED WITH ROCK SCALING OPERATIONS.

T. 23N. R. 26E. W.M. SECTIONS 13 & 14 SLOPE 8



FILE NAME	G:\Engineering\PE201\Project	s\SR 17\23B013, SR 17 Soap Lake to Lake Lenore Cave	es- Unstable	Slopes	s\Ad\CADD\XL6	412_CAD Files\02 - Plan Shee	sts\XL6412_PS_Slope 8.dgn				Plot 2
TIME	4:57:17 PM				REGION STATE	FED.AID PROJ.NO.	of Washing			SR 17	PLAN REF NO
DATE	3/9/2023				10 WASH		000				8ST1
PLOTTED BY	LedbetB				IU WASI		8	> PERTEET		SOAP LAKE TO LAKE LENORE CAVES	0011
DESIGNED BY	A. SCHULTZ				JOB NUMBER		Engineering Geologist	123 OHME GARDEN ROAD, SUITE 8	Washington State	UNSTABLE SLOPES	SHEET
ENTERED BY	K. CRONENWETT				23B013		2869 0000	WENATCHEE, WA 98801	9		34
CHECKED BY	K. WISEMAN				CONTRACT NO.	LOCATION NO.	Cabriell Taylor	800.615.9900	Department of Transportation		OF
PROJ. ENGR.	M. CASTILLO					XL-6412	Gabriel L. Taylor SEE CT1			SLOPE 8 STABILIZATION PLAN	65 SHEETS
REGIONAL ADM.	D. BIERSCHBACH	REVISION	DATE	BY		XE 0412	P.E. STAMP BOX				SILETO

- ACCESS TO ALL SLOPES IS ONLY AVAILABLE FROM THE ROADWAY.
- SEE SHEET RS1 AND MD1 FOR PAVEMENT REPAIR AND GUARDRAIL PROTECTION DETAILS ASSOCIATED WITH ROCK SCALING OPERATIONS.

T. 23N. R. 26E. W.M. SECTIONS 13 & 14 SLOPE 8



FILE NAME	G:\EngIneerIng\PE201\Projects	SISR 17\23B013, SR 17 Soap Lake to Lake Lenore Cave	es- Unstable	Slopes\Ad\CADD\XL64	412_CAD Files\02 - Plan Shee	s\XL6412_PS_Slope 8.dgn				Plot 3
TIME	4:57:18 PM			REGION STATE	FED.AID PROJ.NO.	of Washing			SR 17	PLAN REF NO
DATE	3/9/2023			10 WASH		000	□			8ST2
PLOTTED BY	LedbetB			III WASH		* * * * * * * * * * * * * * * * * * * *	PERTEET		SOAP LAKE TO LAKE LENORE CAVES	0012
DESIGNED BY	A. SCHULTZ			JOB NUMBER		Engineering Geologist	123 OHME GARDEN ROAD, SUITE 8	l	UNSTABLE SLOPES	SHEET
ENTERED BY	K. CRONENWETT			23B013		2869 0098	WENATCHEE, WA 98801	J		35
CHECKED BY	K. WISEMAN			CONTRACT NO.	LOCATION NO.	and Geo.	800.615.9900	Department of Transportation		OF
PROJ. ENGR.	M. CASTILLO				XL-6412	Gabriel L. Taylor SEE CT1			SLOPE 8 STABILIZATION PLAN	65 SHEETS
REGIONAL ADM	D RIERSCHRACH	REVISION	DATE	RV	7L 0712	DE STAMP BOY	1			3112213

- ACCESS TO ALL SLOPES IS ONLY AVAILABLE FROM THE ROADWAY.
- 2. SEE SHEET RS1 AND MD1 FOR PAVEMENT REPAIR AND GUARDRAIL PROTECTION DETAILS ASSOCIATED WITH ROCK SCALING OPERATIONS.

T. 23N. R. 26E. W.M. SECTIONS 13 & 14 SLOPE 8



FILE NAME	G:\EngIneerIng\PE201\Projects	SISR 17\23B013, SR 17 Soap Lake to Lake Lenore Cave	es- Unstable	Slopes\Ad\CADD\XL64	112_CAD Files\02 - Plan Sheet	ts\XL6412_PS_Slope 8.dgn					Plot 4
TIME	4:57:19 PM			REGION STATE	FED.AID PROJ.NO.	of Washing				SR 17	PLAN REF NO
DATE	3/9/2023			10 WASH		000				<del>-</del>	8ST3
PLOTTED BY	LedbetB			I IU WASH		8	PER1	TEET		SOAP LAKE TO LAKE LENORE CAVES	00.5
DESIGNED BY	A. SCHULTZ			JOB NUMBER		Engineering Geologist	137 OHME CARD	DEN ROAD, SUITE 8	Washington State	UNSTABLE SLOPES	SHEET
ENTERED BY	K. CRONENWETT			23B013		Ce780 1000	WENATCHEE, W	VA 08801	<b>3</b>	ONSTABLE SECTES	36
CHECKED BY	K. WISEMAN			CONTRACT NO.	LOCATION NO.	ed Geo	800.615.9900		Department of Transportation		OF
PROJ. ENGR.	M. CASTILLO				XL-6412	Gabriel L. Taylor SEE CT1				SLOPE 8 STABILIZATION PLAN	65 SHEETS
REGIONAL ADM	D BIERSCHBACH	REVISION	DATE	BY	XL-0412	DE STAMP BOY					SHEETS

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- SEE SHEET RS1 AND MD1 FOR PAVEMENT REPAIR AND GUARDRAIL PROTECTION DETAILS ASSOCIATED WITH ROCK SCALING OPERATIONS.

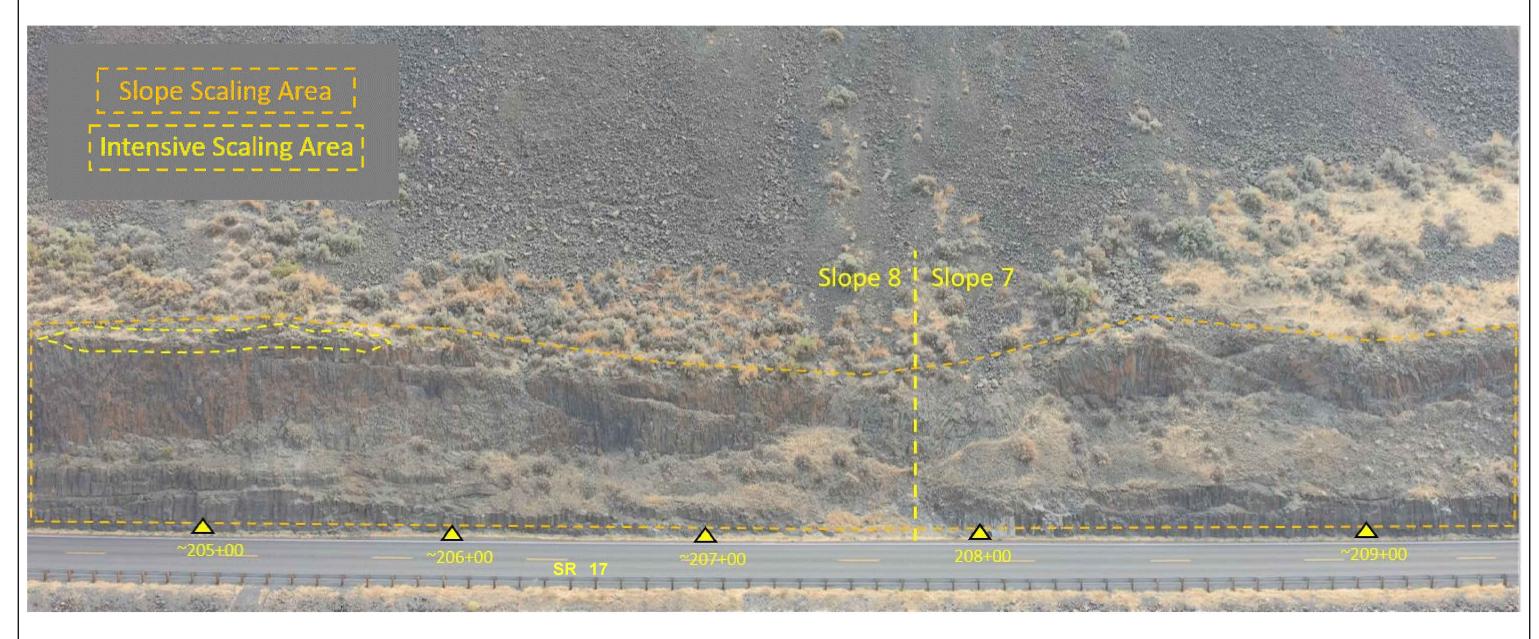
T. 23N. R. 26E. W.M. SECTIONS 13 & 14 SLOPE 8



FILE NAME	G:\Engineering\PE201\Projects\SR 17\23B013, SR 17 Soap Lake to Lake Lenore Cav	es- Unstable	Slopes\Ad\CA	DD\XL6412_CAD Files\02 - Plan Shee	ets\XL6412_PS_Slope 8.dgn				Plot 5
TIME	4:57:20 PM		REGION NO.	STATE FED.AID PROJ.NO.	of Washing			SR 17	PLAN REF NO
DATE	3/9/2023		10	WASH	000				8ST4
PLOTTED BY	LedbetB		10	WASH	8	> PERTEET		SOAP LAKE TO LAKE LENORE CAVES	5017
DESIGNED BY	A. SCHULTZ		JOB N		Engineering Geologist	123 OHME GARDEN ROAD, SUITE 8	Washington State	UNSTABLE SLOPES	SHEET
ENTERED BY	K. CRONENWETT		23B	013	2869	WENATCHEE, WA 98801	311111111111111111111111111111111111111		37
CHECKED BY	K. WISEMAN		CONTR	ACT NO. LOCATION NO.	Cabiall Tailor	800.615.9900	Department of Transportation		OF_
PROJ. ENGR.	M. CASTILLO			XL-6412	Gabriel L. Taylor SEE CT1			SLOPE 8 STABILIZATION PLAN	65 SHEETS
REGIONAL ADM	D RIFRSCHBACH REVISION	DATE	BV	\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \	DE STAND BOY				SILLIS

- ACCESS TO ALL SLOPES IS ONLY AVAILABLE FROM THE ROADWAY.
- SEE SHEET RS1 AND MD1 FOR PAVEMENT REPAIR AND GUARDRAIL PROTECTION DETAILS ASSOCIATED WITH ROCK SCALING OPERATIONS.

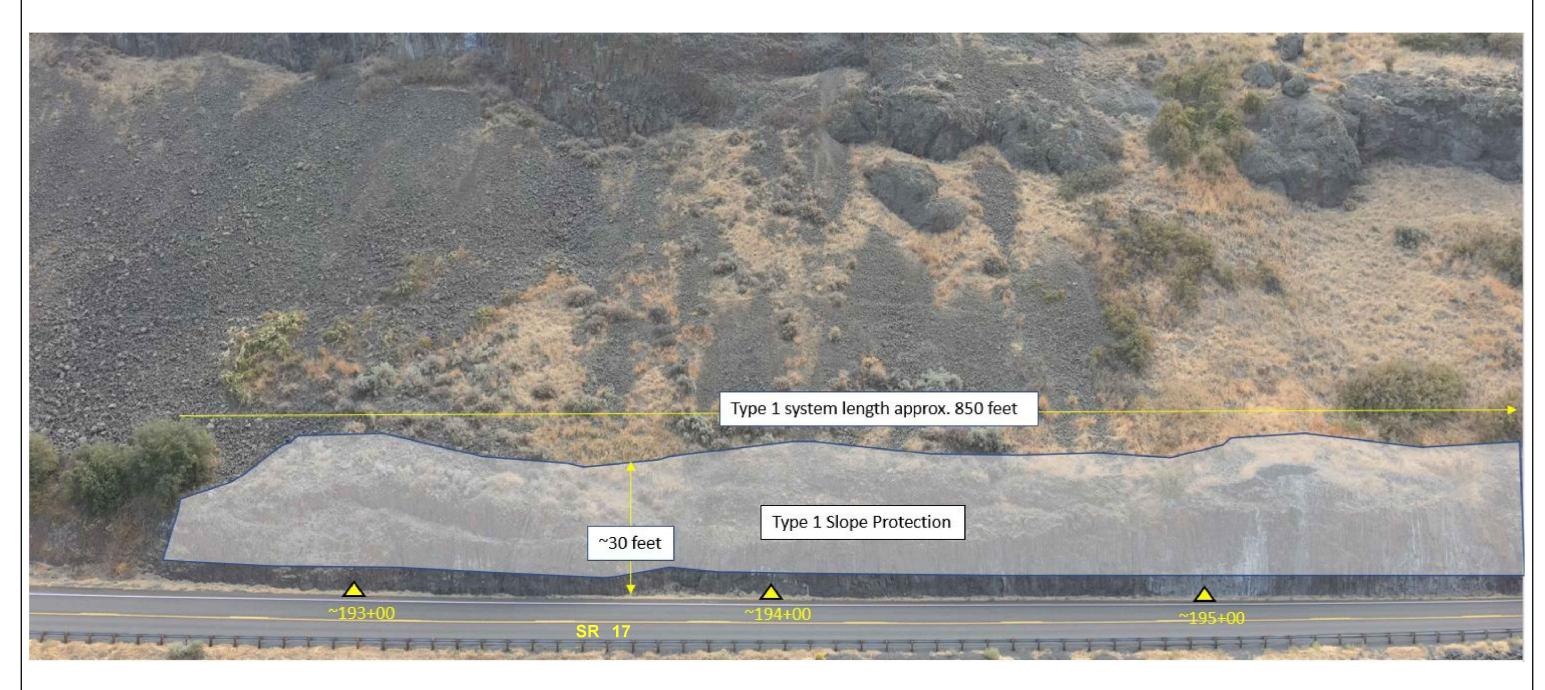
T. 23N. R. 26E. W.M. SECTIONS 13 & 14 SLOPE 8



FILE NAME	G:\Engineering\PE201\Projects\SR 17\23B	3013, SR 17 Soap Lake to Lake Lenore Cave	es- Unstable	Slopes\Ad\CADD	XL6412_CAD Files\02 - Plan She	ets\XL6412_PS_Slope 8.dgn				Plot 6
TIME	4:57:21 PM			REGION ST	FED.AID PROJ.NO.	of Washing			SR 17	PLAN REF NO
DATE	3/9/2023			10 W	eu	000				8ST5
PLOTTED BY	LedbetB			10   447	SH	8 8 /	PERTEET		SOAP LAKE TO LAKE LENORE CAVES	1 0013
DESIGNED BY	A. SCHULTZ			JOB NUMBE	·	Engineering Geologist	123 OHME GARDEN ROAD, SUITE 8	Washington State	UNSTABLE SLOPES	SHEET
ENTERED BY	K. CRONENWETT			23B01	3	C8780 - 0000 8	WENATCHEE, WA 98801			38
CHECKED BY	K. WISEMAN			CONTRACT	IO. LOCATION NO.	Gabriel L. Taylor SEE CT1	800.615.9900	Department of Transportation		OF OF
PROJ. ENGR.	M. CASTILLO				XL-6412	Gabriel L. Taylor SEE CT1			SLOPE 8 STABILIZATION PLAN	65 SHEETS
REGIONAL ADM.	D. BIERSCHBACH	REVISION	DATE	BY	/	P.E. STAMP BOX	1			JE.10

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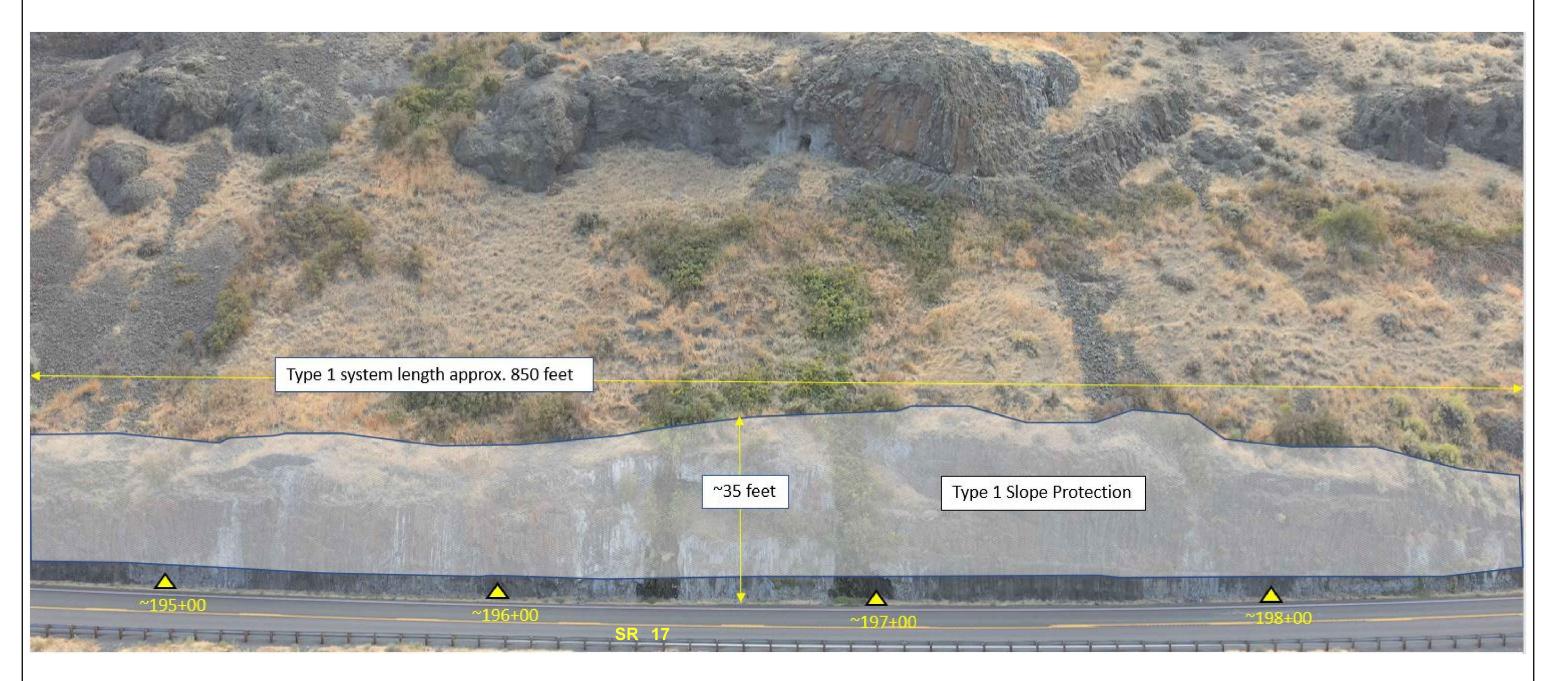
T. 23N. R. 26E. W.M. SECTIONS 13 & 14 SLOPE 8



FILE NAME	G:\Engineering\PE201\Projects	s\SR 17\23B013, SR 17 Soap Lake to Lake Lenore Cave	es- Unstable	Slopes\Ad\CADD\XL64	412_CAD Files\02 - Plan Shee	s\XL6412_PS_Slope 8.dgn				Plot 7
TIME	4:57:22 PM			REGION STATE	FED.AID PROJ.NO.	of Washing			SR 17	PLAN REF NO
DATE	3/9/2023			10 WASH		000	□		J	8ST6
PLOTTED BY	LedbetB			II WASH		* * * * * * * * * * * * * * * * * * * *	> PERTEET		SOAP LAKE TO LAKE LENORE CAVES	0010
DESIGNED BY	A. SCHULTZ			JOB NUMBER		Engineering Geologist	123 OHME GARDEN ROAD, SUITE 8	l	UNSTABLE SLOPES	SHEET
ENTERED BY	K. CRONENWETT			23B013		2869 000	WENATCHEE, WA 98801	3		39
CHECKED BY	K. WISEMAN			CONTRACT NO.	LOCATION NO.	and Geo.	800.615.9900	Department of Transportation		_ OF
PROJ. ENGR.	M. CASTILLO				XL-6412	Gabriel L. Taylor SEE CT1			SLOPE 8 STABILIZATION PLAN	65 SHEETS
REGIONAL ADM	D RIERSCHRACH	REVISION	DATE	RV	AL VTIL	DE STAMP BOY				SILEETS

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# T. 23N. R. 26E. W.M. SECTIONS 13 & 14 SLOPE 8



FILE NAME	G:\Engineering\PE201\Projects	\SR 17\23B013, SR 17 Soap Lake to Lake Lenore Cave	es- Unstable	Slope	s\Ad\CADD\XL6	412_CAD Files\02 - Plan Shee	ts\XL6412_PS_Slope 8.dgn					Plot 8
TIME	4:57:23 PM				REGION STATE	FED.AID PROJ.NO.	of Washing				SR 17	PLAN REF NO
DATE	3/9/2023				10 WASH		000				<del></del>	8ST7
PLOTTED BY	LedbetB				IU WASH		8	$\rightarrow$	PERTEET		SOAP LAKE TO LAKE LENORE CAVES	0017
DESIGNED BY	A. SCHULTZ				JOB NUMBER		Engineering Geologist		137 OHME CARRENDOAR SHITE 9	Washington State	UNSTABLE SLOPES	SHEET
ENTERED BY	K. CRONENWETT				23B013		Ce750 + 0 = 000 18		123 OHME GARDEN ROAD, SUITE 8 WENATCHEE, WA 98801	9		40
CHECKED BY	K. WISEMAN				CONTRACT NO.	LOCATION NO.	Cabriell Taylor		800.615.9900	Department of Transportation		OF_
PROJ. ENGR.	M. CASTILLO					XL-6412	Gabriel L. Taylor SEE CT1				SLOPE 8 STABILIZATION PLAN	65 SHEETS
REGIONAL ADM.	D. BIERSCHBACH	REVISION	DATE	BY		XE 0412	P.E. STAMP BOX					SILETS

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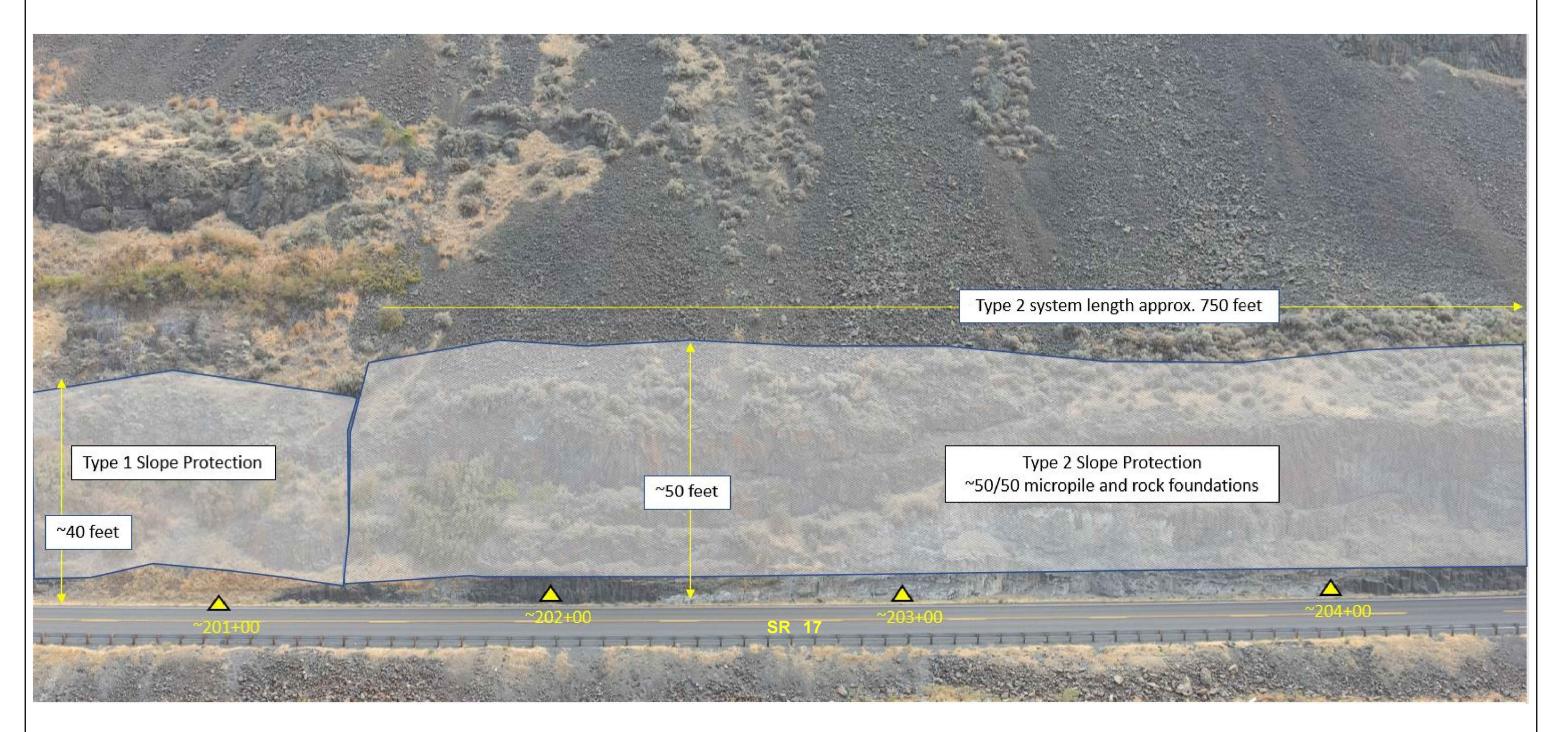
# T. 23N. R. 26E. W.M. SECTIONS 13 & 14 SLOPE 8



FILE NAME	G:\Engineering\PE201\Projects	\SR 17\23B013, SR 17 Soap Lake to Lake Lenore Cave	es- Unstable	Slope	es\Ad\CADD\XL6	5412_CAD Files\02 - Plan Shee	s\XL6412_PS_Slope 8.dgn					Plot 9
TIME	4:57:24 PM				REGION STATE	FED.AID PROJ.NO.	of Washing				SR 17	PLAN REF NO
DATE	3/9/2023				10 WASH	1	S. S. S. S. S. S. S. S. S. S. S. S. S. S					8ST8
PLOTTED BY	LedbetB				T TO WASE	1	8	(+)	PERTEET		SOAP LAKE TO LAKE LENORE CAVES	0010
DESIGNED BY	A. SCHULTZ				JOB NUMBER	1	Engineering Geologist		123 OHME GARDEN ROAD, SUITE 8	Washington State	UNSTABLE SLOPES	SHEET
ENTERED BY	K. CRONENWETT				23B013		2869 1005		MENIATCHEE WA 08801	9		41
CHECKED BY	K. WISEMAN				CONTRACT NO.	LOCATION NO.	Cabriell Taylor		800.615.9900	Department of Transportation		OF OF
PROJ. ENGR.	M. CASTILLO					XL-6412	Gabriel L. Taylor SEE CT1				SLOPE 8 STABILIZATION PLAN	65 SHEETS
REGIONAL ADM.	D. BIERSCHBACH	REVISION	DATE	BY		XE 0412	P.E. STAMP BOX					SHEETS

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- SEE SPECIAL PROVISION "PERMANENT GROUND ANCHORS," "TYPE 1 SLOPE PROTECTION," AND "TYPE 2 SLOPE PROTECTION" FOR NETTING AND ANCHORING INFORMATION AND REQUIREMENTS.

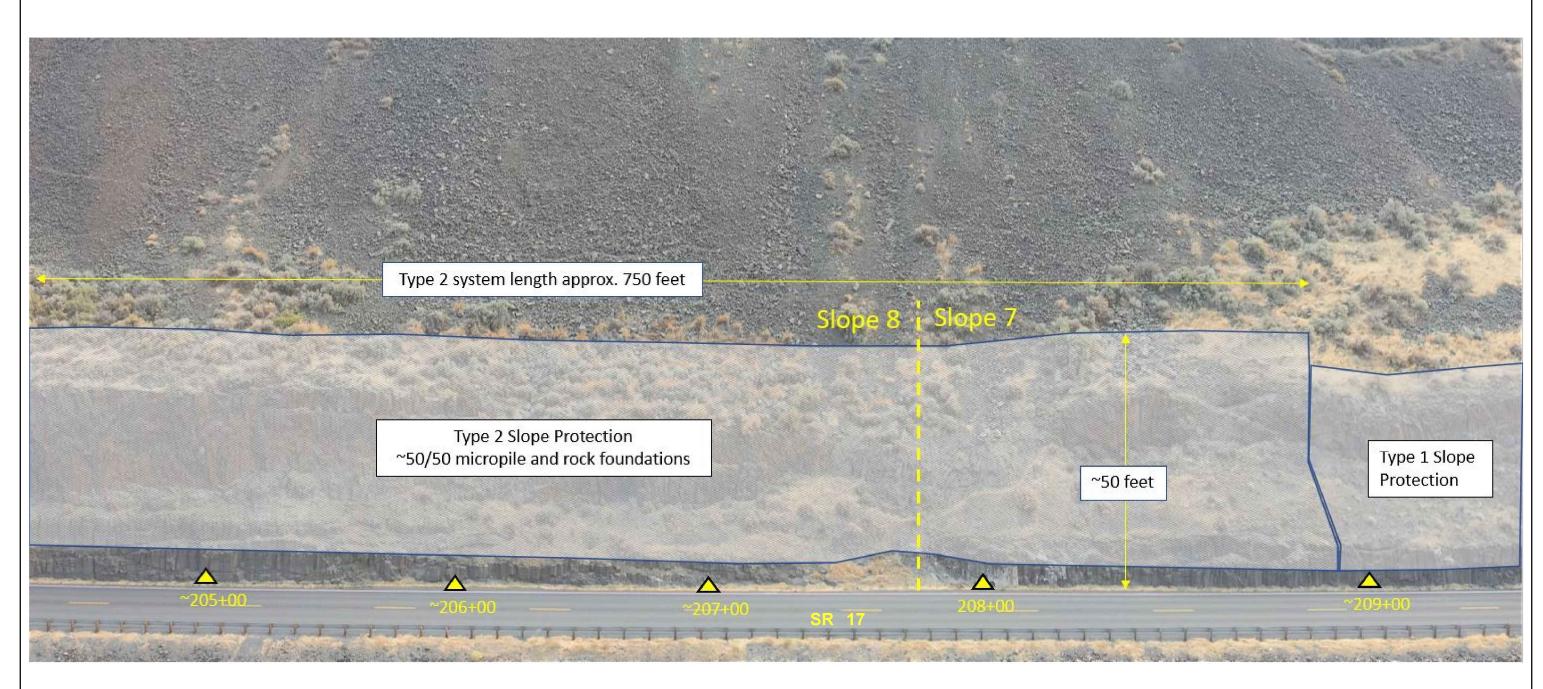
# T. 23N. R. 26E. W.M. SECTIONS 13 & 14 SLOPE 8



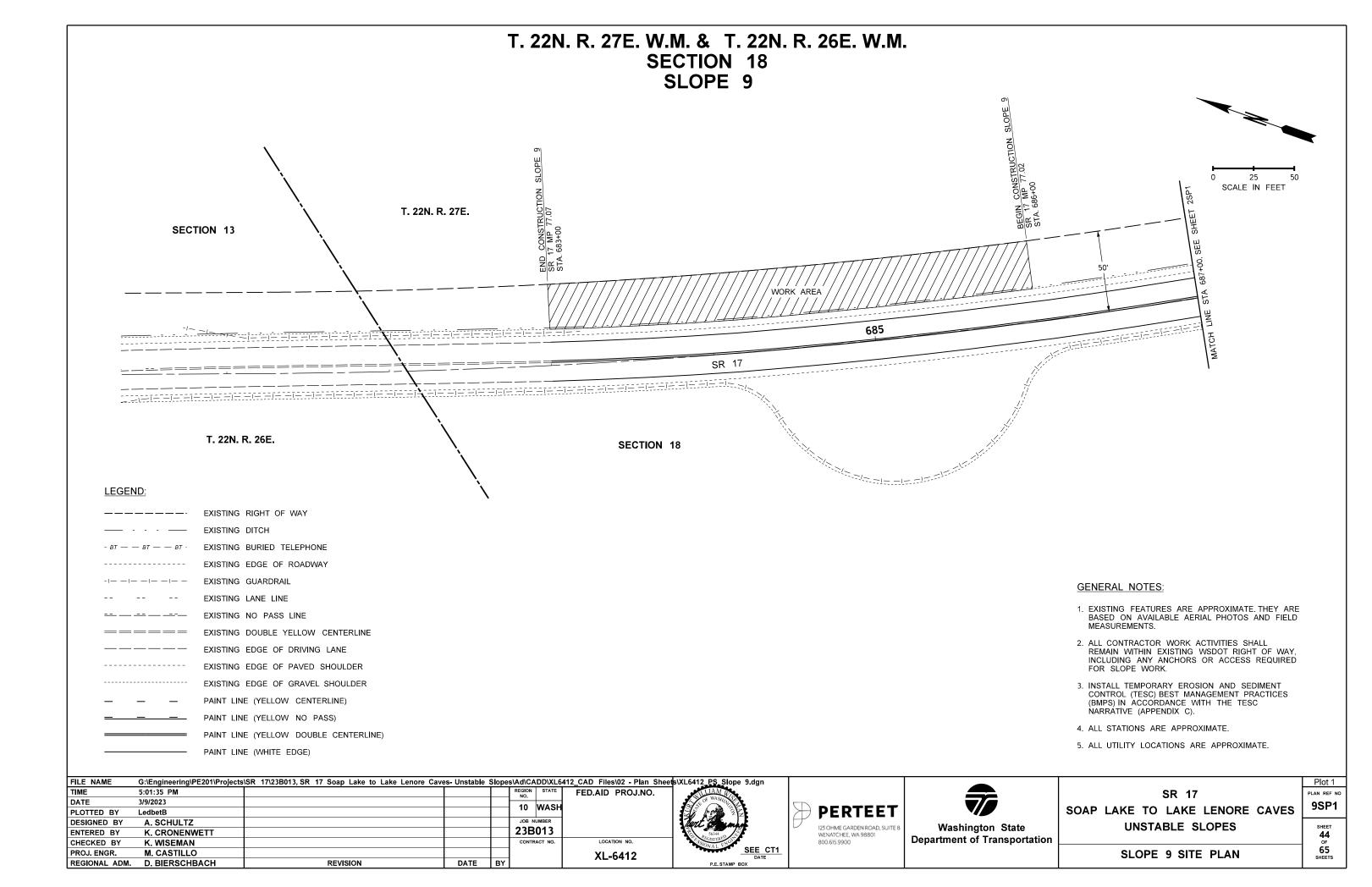
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TIME	4:57:25 PM			REGION STATE	FED.AID PROJ.NO.	of Washing			SR 17	PLAN REF NO
DATE	3/9/2023			10 WASH		000				8ST9
PLOTTED BY	LedbetB			T 10 WASH		8	PERTEET		SOAP LAKE TO LAKE LENORE CAVES	0015
DESIGNED BY	A. SCHULTZ			JOB NUMBER		Engineering Geologist	123 OHME GARDEN ROAD, SUITE 8	Washington State	UNSTABLE SLOPES	SHEET
ENTERED BY	K. CRONENWETT			23B013		2869	WENATCHEE, WA 98801	9		42
CHECKED BY	K. WISEMAN			CONTRACT NO.	LOCATION NO.	Cobiell Tender	800.615.9900	Department of Transportation		OF '
PROJ. ENGR.	M. CASTILLO				XL-6412	Gabriel L. Taylor SEE CT1			SLOPE 8 STABILIZATION PLAN	65 SHEETS
DECIONAL ADM	D DIEDECHDACH	DEVISION	DATE	DV	AL UTIL	DATE				3112213

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T. 23N. R. 26E. W.M. SECTIONS 13 & 14 SLOPE 8

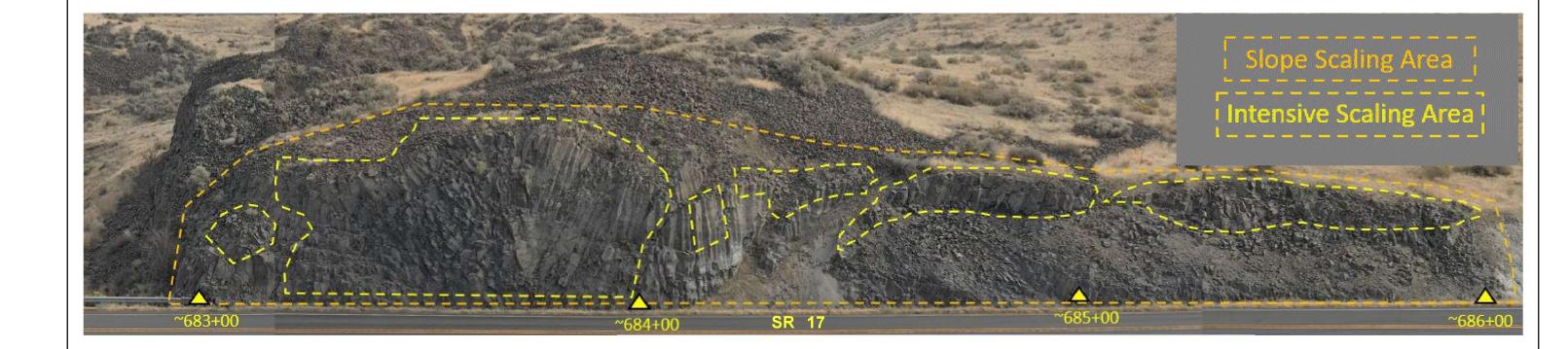


FILE NAME	G:\Engineering\PE201\Projects	s\SR 17\23B013, SR 17 Soap Lake to Lake Lenore Cav	es- Unstable	Slopes\Ad\CADD\XL64	412_CAD Files\02 - Plan Shee	s\XL6412_PS_Slope 8.dgn					Plot 11
TIME	4:57:26 PM			REGION STATE	FED.AID PROJ.NO.	of Washing				SR 17	PLAN REF NO
DATE	3/9/2023			10 WASH		85					8ST10
PLOTTED BY	LedbetB			I IU WASH		8	$\rightarrow$	PERTEET		SOAP LAKE TO LAKE LENORE CAVES	00110
DESIGNED BY	A. SCHULTZ			JOB NUMBER		Engineering Geologist		123 OHME GARDEN ROAD, SUITE 8	Washington State	UNSTABLE SLOPES	SHEET
ENTERED BY	K. CRONENWETT			23B013		2869 1000		WENATCHEE, WA 98801	3	ONSTABLE SECTES	43
CHECKED BY	K. WISEMAN			CONTRACT NO.	LOCATION NO.	ed Geo		800.615.9900	Department of Transportation		OF
PROJ. ENGR.	M. CASTILLO				XL-6412	Gabriel L. Taylor SEE CT1				SLOPE 8 STABILIZATION PLAN	65 SHEETS
REGIONAL ADM	D BIERSCHBACH	REVISION	DATE	BY	AL-0412	DE STAMP DOY					SHEETS



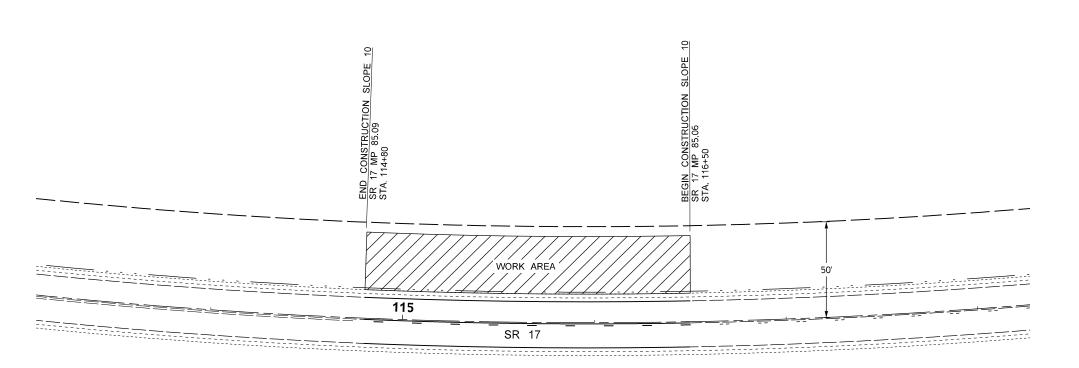
# T. 22N. R. 27E. W.M. & T. 22N. R. 26E. W.M. SECTION 18 SLOPE 9

- ACCESS TO ALL SLOPES IS ONLY AVAILABLE FROM THE ROADWAY.
- SEE SHEET RS1 AND MD1 FOR PAVEMENT REPAIR AND GUARDRAIL PROTECTION DETAILS ASSOCIATED WITH ROCK SCALING OPERATIONS.



FILE NAME	G:\Engineering\PE201\Projects	s\SR 17\23B013, SR 17 Soap Lake to Lake Lenore Cave	es- Unstable	Slopes\Ad\CADD\XL64	412_CAD Files\02 - Plan Shee	ts\XL6412_PS_Slope 9.dgn				Plot 2
TIME	5:02:08 PM			REGION STATE	FED.AID PROJ.NO.	of Washing			SR 17	PLAN REF NO
DATE	3/9/2023			10 WASH		Sold Sold Sold Sold Sold Sold Sold Sold	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\			9ST1
PLOTTED BY	LedbetB			I IU WASH		8	PERTEET		SOAP LAKE TO LAKE LENORE CAVES	5011
DESIGNED BY	A. SCHULTZ			JOB NUMBER		Engineering Geologist	123 OHME GARDEN ROAD, SUITE 8	Washington State	UNSTABLE SLOPES	SHEET
ENTERED BY	K. CRONENWETT			23B013		2869 1008	WENATCHEE, WA 98801	1	ONSTABLE SLOPES	45
CHECKED BY	K. WISEMAN			CONTRACT NO.	LOCATION NO.	and Geo.	800.615.9900	Department of Transportation		OF
PROJ. ENGR.	M. CASTILLO				XL-6412	Gabriel L. Taylor SEE CT1			SLOPE 9 STABILIZATION PLAN	65 SHEETS
REGIONAL ADM	D RIFRSCHBACH	REVISION	DATE	BY	AL-0412	DE STAMP BOY				SHEETS

## T. 23N. R. 26E. W.M. SECTION 1 SLOPE 10



#### LEGEND:

---- EXISTING RIGHT OF WAY EXISTING DITCH - BT — — BT — — BT -EXISTING BURIED TELEPHONE EXISTING EDGE OF ROADWAY -1---1---1---EXISTING GUARDRAIL EXISTING LANE LINE EXISTING NO PASS LINE \_\_\_\_\_\_ EXISTING DOUBLE YELLOW CENTERLINE EXISTING EDGE OF DRIVING LANE EXISTING EDGE OF PAVED SHOULDER EXISTING EDGE OF GRAVEL SHOULDER PAINT LINE (YELLOW CENTERLINE) PAINT LINE (YELLOW NO PASS) PAINT LINE (YELLOW DOUBLE CENTERLINE) PAINT LINE (WHITE EDGE)

#### GENERAL NOTES:

1. EXISTING FEATURES ARE APPROXIMATE. THEY ARE BASED ON AVAILABLE AERIAL PHOTOS AND FIELD MEASUREMENTS.

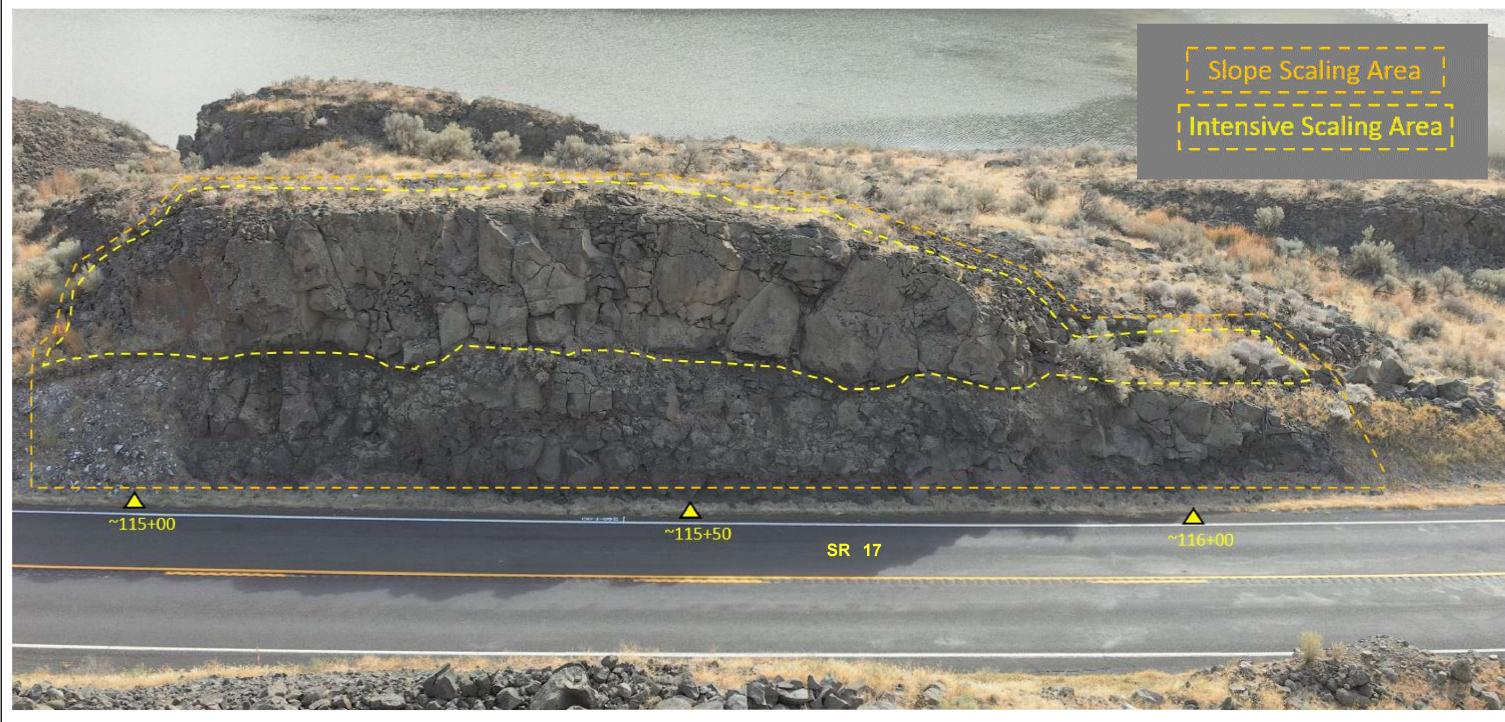
SCALE IN FEET

- 2. ALL CONTRACTOR WORK ACTIVITIES SHALL REMAIN WITHIN EXISTING WSDOT RIGHT OF WAY, INCLUDING ANY ANCHORS OR ACCESS REQUIRED FOR SLOPE WORK.
- 3. INSTALL TEMPORARY EROSION AND SEDIMENT CONTROL (TESC) BEST MANAGEMENT PRACTICES (BMPS) IN ACCORDANCE WITH THE TESC NARRATIVE (APPENDIX C).
- 4. ALL STATIONS ARE APPROXIMATE.
- 5. ALL UTILITY LOCATIONS ARE APPROXIMATE.

FILE NAME	G:\Engineering\PE201\Projects	s\SR 17\23B013, SR 17 Soap Lake to Lake Lenore Cav	es- Unstable	Slopes\Ad\CADD\XL64	412_CAD Files\02 - Plan Shee	ets\XL6412_PS_Slope 10.dgn				Plot 1
TIME	5:03:48 PM			REGION STATE	FED.AID PROJ.NO.	LIAM W			SR 17	PLAN REF NO
DATE	3/9/2023			10 WASH		Se WASHING				10SP1
PLOTTED BY	LedbetB			10 WASH			PERTEET		SOAP LAKE TO LAKE LENORE CAVES	1001 1
DESIGNED BY	A. SCHULTZ			JOB NUMBER		Text France	127 OLIME CARDENIDOAD CLUTE 9	Washington State	UNSTABLE SLOPES	SHEET
ENTERED BY	K. CRONENWETT			23B013		56344	123 OHME GARDEN ROAD, SUITE 8 WENATCHEE, WA 98801	]	UNSTABLE SLOPES	46
CHECKED BY	K. WISEMAN			CONTRACT NO.	LOCATION NO.	SSIONAL ENGINEERS	800.615.9900	Department of Transportation		_ OF
PROJ. ENGR.	M. CASTILLO				XL-6412	SEE CT1			SLOPE 10 SITE PLAN	65 SHEETS
REGIONAL ADM.	D. BIERSCHBACH	REVISION	DATE	BY	XL-0412	P.E. STAMP BOX				SHEETS

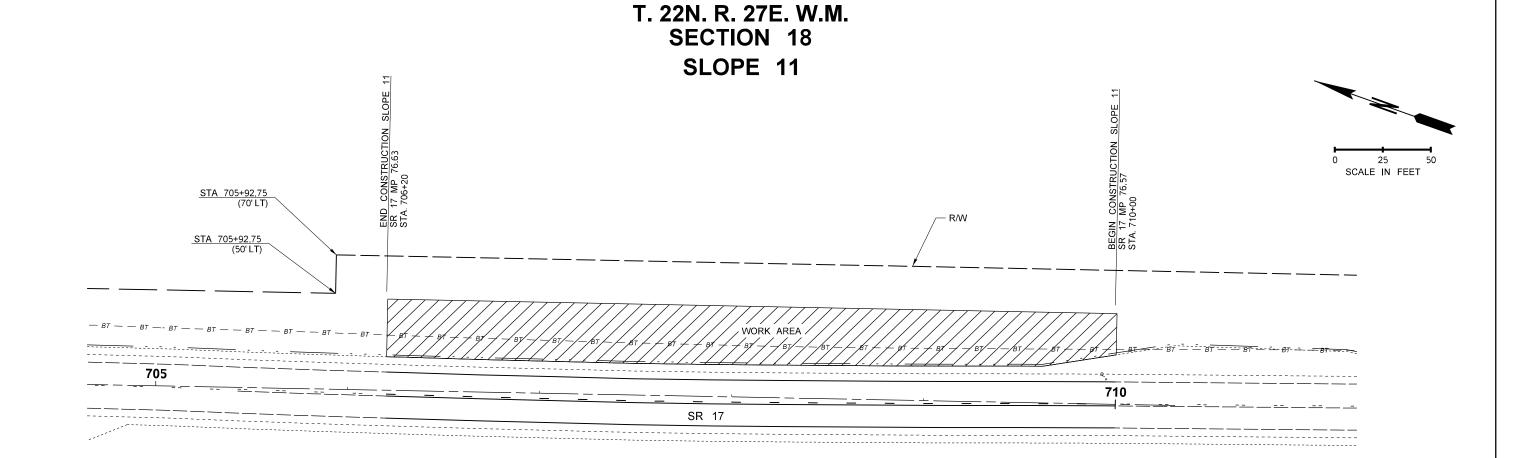
- ACCESS TO ALL SLOPES IS ONLY AVAILABLE FROM THE ROADWAY.
- SEE SHEET RS1 AND MD1 FOR PAVEMENT REPAIR AND GUARDRAIL PROTECTION DETAILS ASSOCIATED WITH ROCK SCALING OPERATIONS.

T. 23N. R. 26E. W.M. SECTION 1 SLOPE 10



|--|

FILE NAME	G:\Engineering\PE201\Projects	s\SR 17\23B013, SR 17 Soap Lake to Lake Lenore Cave	es- Unstable	Slopes\Ad\CADD\XL64	412_CAD Files\02 - Plan Shee	ts\XL6412_PS_Slope 10.dgn				Plot 2
TIME	5:03:59 PM			REGION STATE	FED.AID PROJ.NO.	of Washing			SR 17	PLAN REF NO
DATE	3/9/2023			10 WASH		Sold Maria	D			10ST1
PLOTTED BY	LedbetB			IU WASH		8	PERTEET		SOAP LAKE TO LAKE LENORE CAVES	1 10011
DESIGNED BY	A. SCHULTZ			JOB NUMBER		Engineering Geologist		1	UNSTABLE SLOPES	SHEET
ENTERED BY	K. CRONENWETT			23B013		2869 1008	123 OHME GARDEN ROAD, SUITE 8 WENATCHEE, WA 98801	1		47
CHECKED BY	K. WISEMAN			CONTRACT NO.	LOCATION NO.	and Geo.	800.615.9900	Department of Transportation		OF
PROJ. ENGR.	M. CASTILLO				XL-6412	Gabriel L. Taylor SEE CT1			SLOPE 10 STABILIZATION PLAN	65 SHEETS
REGIONAL ADM	D BIERSCHBACH	REVISION	DATE	RV	AL-0412	DE STAMP POY				SHEETS



#### LEGEND:

EXISTING RIGHT OF WAY EXISTING DITCH EXISTING BURIED TELEPHONE - BT — — BT — — BT · EXISTING EDGE OF ROADWAY EXISTING GUARDRAIL -1- -1- -1- -1- -EXISTING LANE LINE EXISTING NO PASS LINE \_\_\_\_\_\_ EXISTING DOUBLE YELLOW CENTERLINE EXISTING EDGE OF DRIVING LANE EXISTING EDGE OF PAVED SHOULDER EXISTING EDGE OF GRAVEL SHOULDER PAINT LINE (YELLOW CENTERLINE) PAINT LINE (YELLOW NO PASS) PAINT LINE (YELLOW DOUBLE CENTERLINE) PAINT LINE (WHITE EDGE)

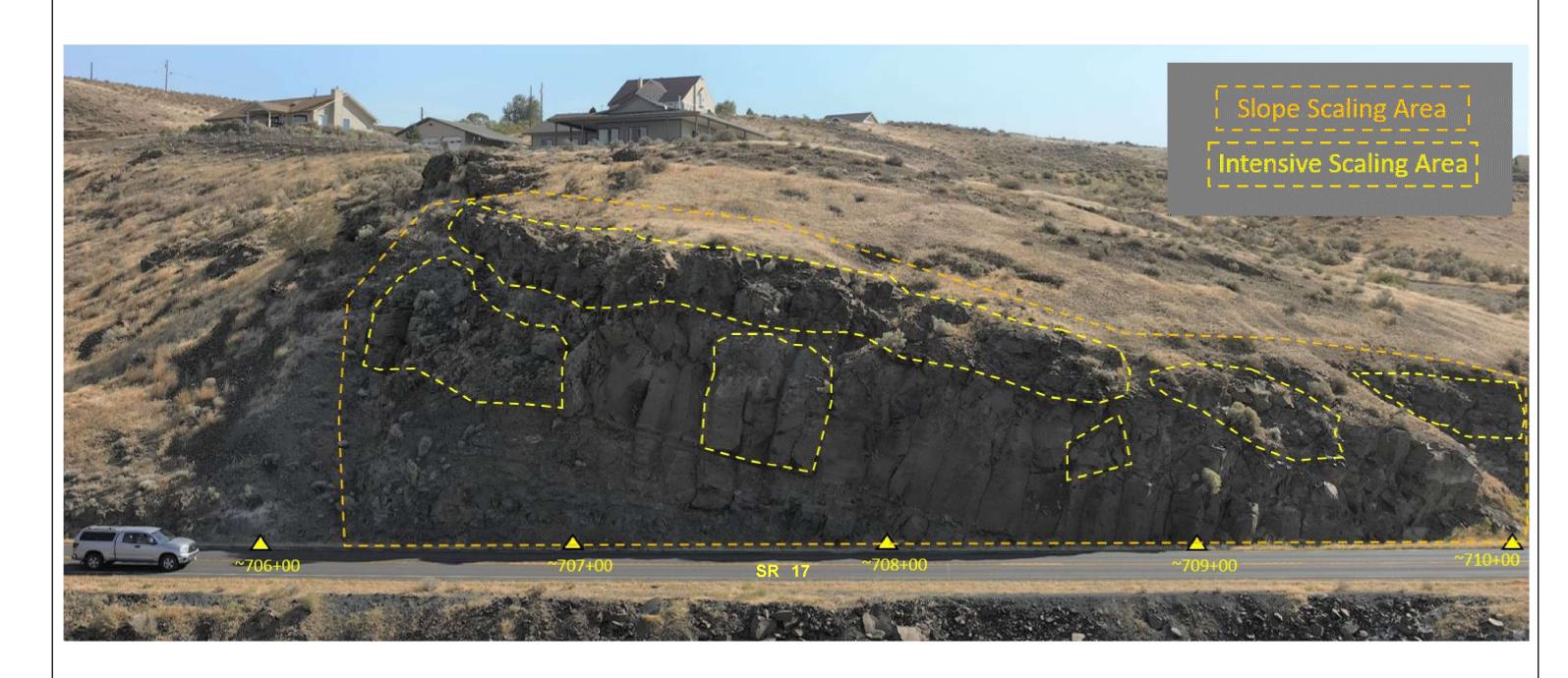
#### **GENERAL NOTES:**

- 1. EXISTING FEATURES ARE APPROXIMATE. THEY ARE BASED ON AVAILABLE AERIAL PHOTOS AND FIELD MEASUREMENTS.
- 2. ALL CONTRACTOR WORK ACTIVITIES SHALL REMAIN WITHIN EXISTING WSDOT RIGHT OF WAY, INCLUDING ANY ANCHORS OR ACCESS REQUIRED FOR SLOPE WORK.
- 3. INSTALL TEMPORARY EROSION AND SEDIMENT CONTROL (TESC) BEST MANAGEMENT PRACTICES (BMPS) IN ACCORDANCE WITH THE TESC NARRATIVE (APPENDIX C).
- 4. ALL STATIONS ARE APPROXIMATE.
- 5. ALL UTILITY LOCATIONS ARE APPROXIMATE.

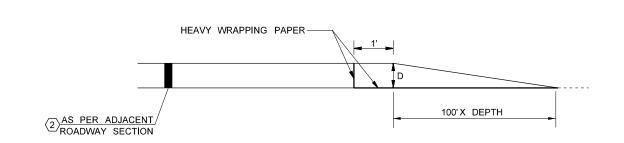
FILE NAME	G:\Engineering\PE201\Projects\SR 17\23B013, SR 17 Soap Lake to Lake Lenore C	aves- Unstable	Slope	es\Ad\CADD\XL6	6412_CAD Files\02 - Plan Shee	ets\XL6412_PS_Slope 11.dgn				Plot 1
TIME	5:05:27 PM			REGION STATE	FED.AID PROJ.NO.	LIAM W			SR 17	PLAN REF NO
DATE	3/9/2023			10 WASH	<del>]</del>	Se WASHING	D			11SP1
PLOTTED BY	LedbetB			T TO WASE	1		PERTEET		SOAP LAKE TO LAKE LENORE CAVES	1 131 1
DESIGNED BY	A. SCHULTZ			JOB NUMBER		There there are a		l ,,, , , , , , , , , , , , , , , , , ,	UNSTABLE SLOPES	SHEET
ENTERED BY	K. CRONENWETT			23B013		56344	123 OHME GARDEN ROAD, SUITE 8 WENATCHEE, WA 98801	j		48
CHECKED BY	K. WISEMAN			CONTRACT NO.	LOCATION NO.	SSIONAL ENGIN	800.615.9900	Department of Transportation		OF
PROJ. ENGR.	M. CASTILLO				XL-6412	SEE CT1			SLOPE 11 SITE PLAN	65 SHEETS
REGIONAL ADM	D. BIERSCHBACH REVISION	DATE	BY		XL-0412	P.E. STAMP BOX				SHEETS

- 1. ACCESS TO ALL SLOPES IS ONLY AVAILABLE FROM THE ROADWAY.
- SEE SHEET RS1 AND MD1 FOR PAVEMENT REPAIR AND GUARDRAIL PROTECTION DETAILS ASSOCIATED WITH ROCK SCALING OPERATIONS.

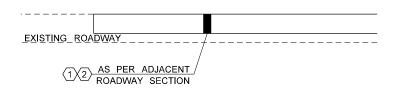
T. 22N. R. 27E. W.M. SECTION 18
SLOPE 11



FILE NAME	G:\Engineering\PE201\Projects\SR 17\23B013, SR 17 Soap Lake to Lake Lenore Ca	ves- Unstable	Slopes\A	Ad/CADD/XL6	412_CAD Files\02 - Plan Shee	ts\XL6412_PS_Slope 11.dgn				Plot 2
TIME	5:05:38 PM		RE	REGION STATE	FED.AID PROJ.NO.	of Washing			SR 17	PLAN REF NO
DATE	3/9/2023			10 WASH		Sold Sold Sold Sold Sold Sold Sold Sold	T			11ST1
PLOTTED BY	LedbetB			10 WASI		8	PERTEET		SOAP LAKE TO LAKE LENORE CAVES	
DESIGNED BY	A. SCHULTZ			JOB NUMBER		Engineering Geologist	123 OHME GARDEN ROAD, SUITE 8	Washington State	UNSTABLE SLOPES	SHEET
ENTERED BY	K. CRONENWETT		2	23B013		2869	WENATCHEE, WA 98801	3		49
CHECKED BY	K. WISEMAN			CONTRACT NO.	LOCATION NO.	Cabriell Taylor	800.615.9900	Department of Transportation		OF
PROJ. ENGR.	M. CASTILLO				XL-6412	Gabriel L. Taylor SEE CT1			SLOPE 11 STABILIZATION PLAN	65 SHEETS
REGIONAL ADM	D RIFRSCHBACH REVISION	DATE	BV		\L 3712	DE STAMP BOY				J. STIZE 13

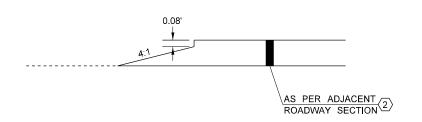


#### PAVING CONSTRUCTION JOINT TAPER DETAIL



#### PLANING/PAVING TIE-IN DETAIL

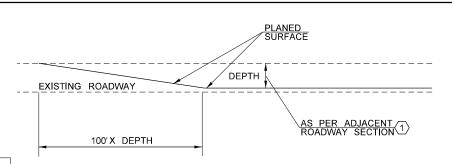
SHALL BE CONSTRUCTED AT BEGIN AND END PROJECT, AND ALL SIDE STREET TIE-IN PERMANENT CONSTRUCTION



#### PAVING NOTCHED WEDGE JOINT DETAIL

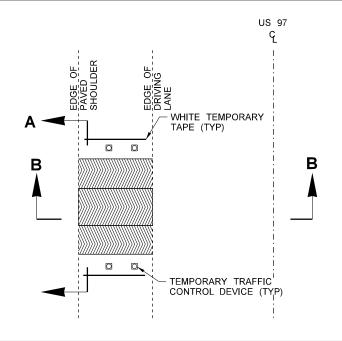
#### LEGEND:

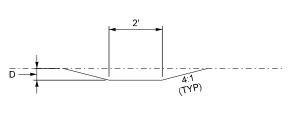
- 1 PLANING BITUMINOUS PAVEMENT
- 2 HMA CL. 3/8 IN. PG 64H-28



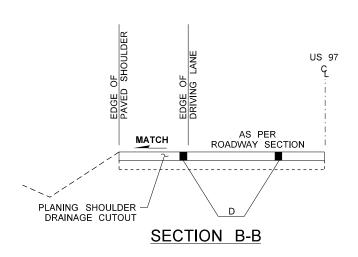
#### CONSTRUCTION JOINT PLANED TAPER

APPLICABLE FOR PLANING





SECTION A-A



D= DEPTH OF PLANING SHOWN ON THE APPLICABLE ROADWAY SECTION.

## PLANING SHOULDER DRAINAGE CUTOUT

SEE SPECIAL PROVISION "PLANING SHOULDER DRAINAGE CUTOUT"

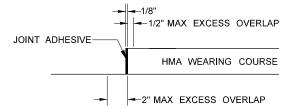
FILE NAME	G:\Engineering\PE201\Projects	SISR 17\23B013, SR 17 Soap Lake to Lake Lenore Cav	es- Unstable	Slope	es/Ad/CADD/XL6	6412_CAD Files\02 Plan Shee	ts\XL6412_PS_PD.dgn				Plot 1
TIME	9:45:22 AM				REGION STATE	FED.AID PROJ.NO.	TILIAM W			SR 17	PLAN REF NO
DATE	3/15/2023				10 WASH	1	St. of WASHING				PD1
PLOTTED BY	LedbetB				10 WASI		1 25 AF 3 2 2 L	PERTEET		SOAP LAKE TO LAKE LENORE CAVES	
DESIGNED BY	A. SCHULTZ				JOB NUMBER		wet desenon	123 OHME GARDEN ROAD, SUITE 8	Washington State	UNSTABLE SLOPES	SHEET
ENTERED BY	K. CRONENWETT				23B013		56344	MENIATCHEE WA 08801			50
CHECKED BY	K. WISEMAN				CONTRACT NO.	LOCATION NO.	SSIONAL ENGIN	800.615.9900	Department of Transportation		OF
PROJ. ENGR.	M. CASTILLO					XL-6412	SEE CT1			PAVING DETAILS	65 SHEETS
REGIONAL ADM.	D. BIERSCHBACH	REVISION	DATE	BY		XE 5412	P.E. STAMP BOX				SILETO

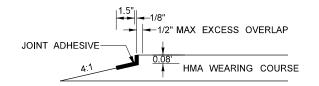
# SR 17 C LEFT SHOULDER SR 17 C RIGHT SHOULDER 2ND LANE PLANED 1ST LANE PLANED 4: 1 BEVEL

#### PLANING CROSS-SECTION DETAIL

#### NOTES

JOINT ADHESIVE TO BE INSTALLED AT ALL LONGITUDINAL PAVEMENT JOINTS.





### JOINT ADHESIVE DETAIL

SEE SPECIAL PROVISION "JOINT ADHESIVE FOR BITUMINOUS PAVEMENT"

NOT TO SCALE

FILE NAME	G:\Engineering\PE201\Projects	NSR 17\23B013, SR	17 Soap Lak	e to Lake	Lenore Ca	ves- Unstable	Slope	s\Ad\CA	DD\XL6	412_CAD	Files\	02 - Plan	Shee	s\Χ
TIME	5:13:10 PM							REGION NO.	STATE	FED.	AID I	PROJ.NO	<u>5.</u>	1
DATE	3/9/2023								WASH					Ι.
PLOTTED BY	LedbetB							''	WASH					li
DESIGNED BY	A. SCHULTZ								IUMBER					H
ENTERED BY	K. CRONENWETT							23B	013					١ '
CHECKED BY	K. WISEMAN							CONTR	RACT NO.		LOCATIO	ON NO.		l
PROJ. ENGR.	M. CASTILLO										XL-6	412		l
REGIONAL ADM.	D. BIERSCHBACH		REVISION	ı		DATE	BY				<u> Л</u> Е-0	/ <del>-</del> 1		1







SR 17
SOAP LAKE TO LAKE LENORE CAVES
UNSTABLE SLOPES

**PAVING DETAILS** 

Plot 2
PLAN REF NO
PD2

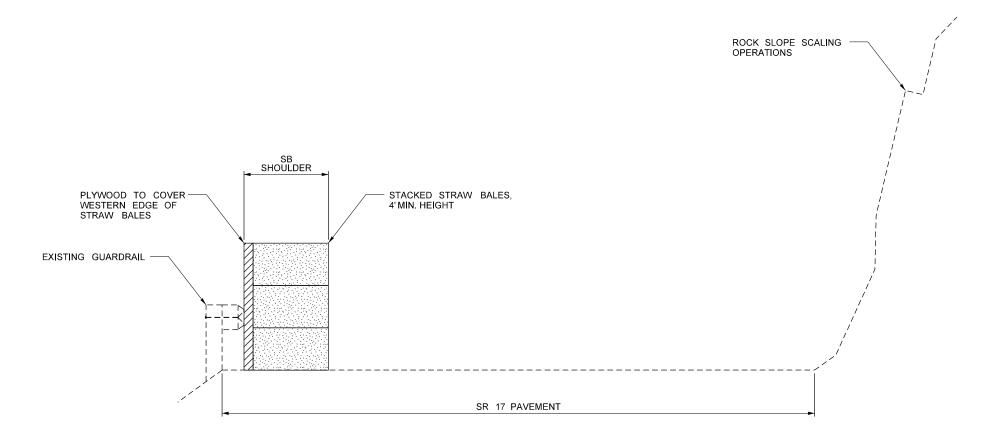
SHEET

51

OF

65

SHEETS



### STRAW BALE - GUARDRAIL PROTECTION

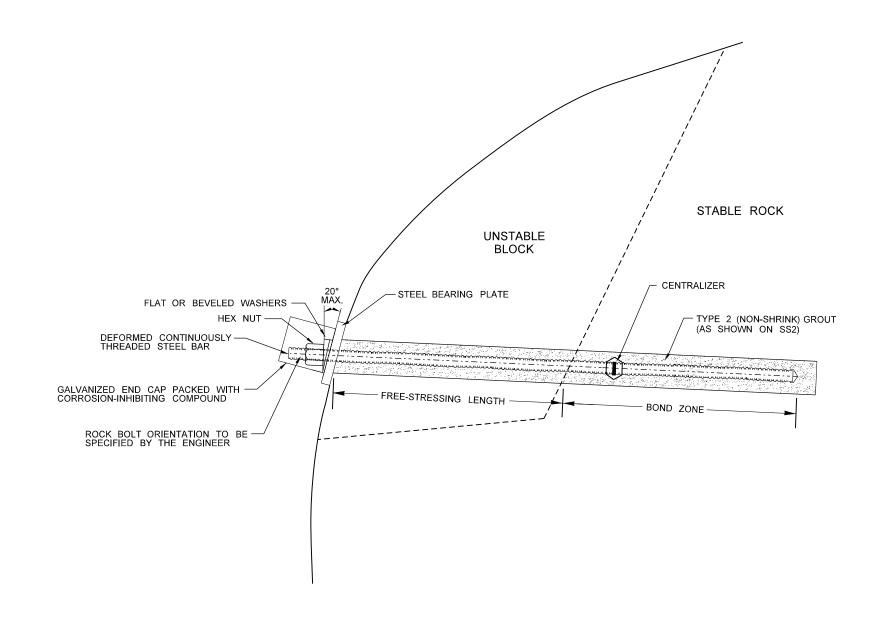
MP 76.86 - MP 77.08 MP 77.35 - MP 77.44 MP 83.04 - MP 83.11 MP 83.18 - MP 83.25 MP 83.27 - MP 83.62

NOT TO SCALE

#### GENERAL NOTE:

SEE SPECIAL PROVISION "STRAW BALE - GUARDRAIL PROTECTION" FOR MORE INFORMATION.

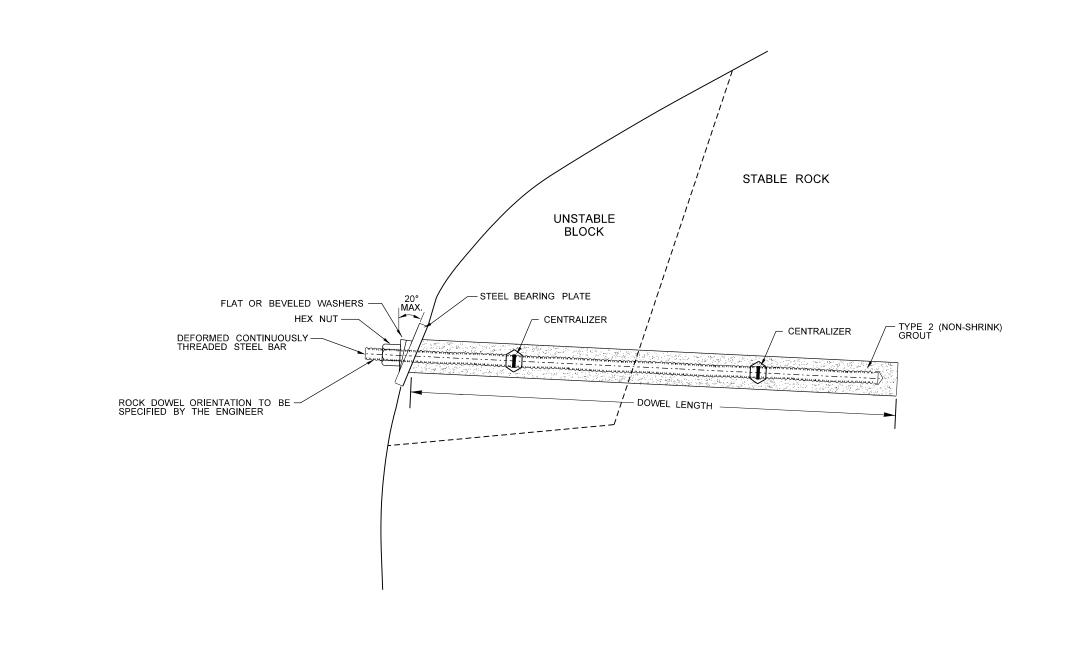
FILE NAME	G:\Engineering\PE201\Projects	s\SR 17\23B013, SR 17 Soap Lake to Lake Lenore	Caves- Unstable	Slopes\Ad\CAI	DD\XL6412_CAD Files\02 - Plan She	eets\XL6412_PS_MD.dgn			Plot 1
TIME	5:14:06 PM			REGION NO	STATE FED.AID PROJ.NO.	LLIAM W		SR 17	PLAN REF NO
DATE	3/9/2023			10	WASH	Exp of WASHING STATES			MD1
PLOTTED BY	LedbetB			10	WASH			SOAP LAKE TO LAKE LENORE CAVES	"""
DESIGNED BY	A. SCHULTZ			JOB NU		West Deman	Washington State	UNSTABLE SLOPES	SHEET
ENTERED BY	K. CRONENWETT			23B	013	56344	•		52
CHECKED BY	K. WISEMAN			CONTRA	CT NO. LOCATION NO.	SSIONAL ENGINE	Department of Transportation		_ OF
PROJ. ENGR.	M. CASTILLO				XL-6412	SEE CT1		MISCELLANEOUS DETAIL	65 SHEETS
REGIONAL ADM.	D. BIERSCHBACH	REVISION	DATE	BY	XL-0412	P.E. STAMP BOX			SHEETS



SEE SPECIAL PROVISION "PERMANENT GROUND ANCHORS" FOR ADDITIONAL INFORMATION.

#### TYPICAL ROCK BOLT INSTALLATION

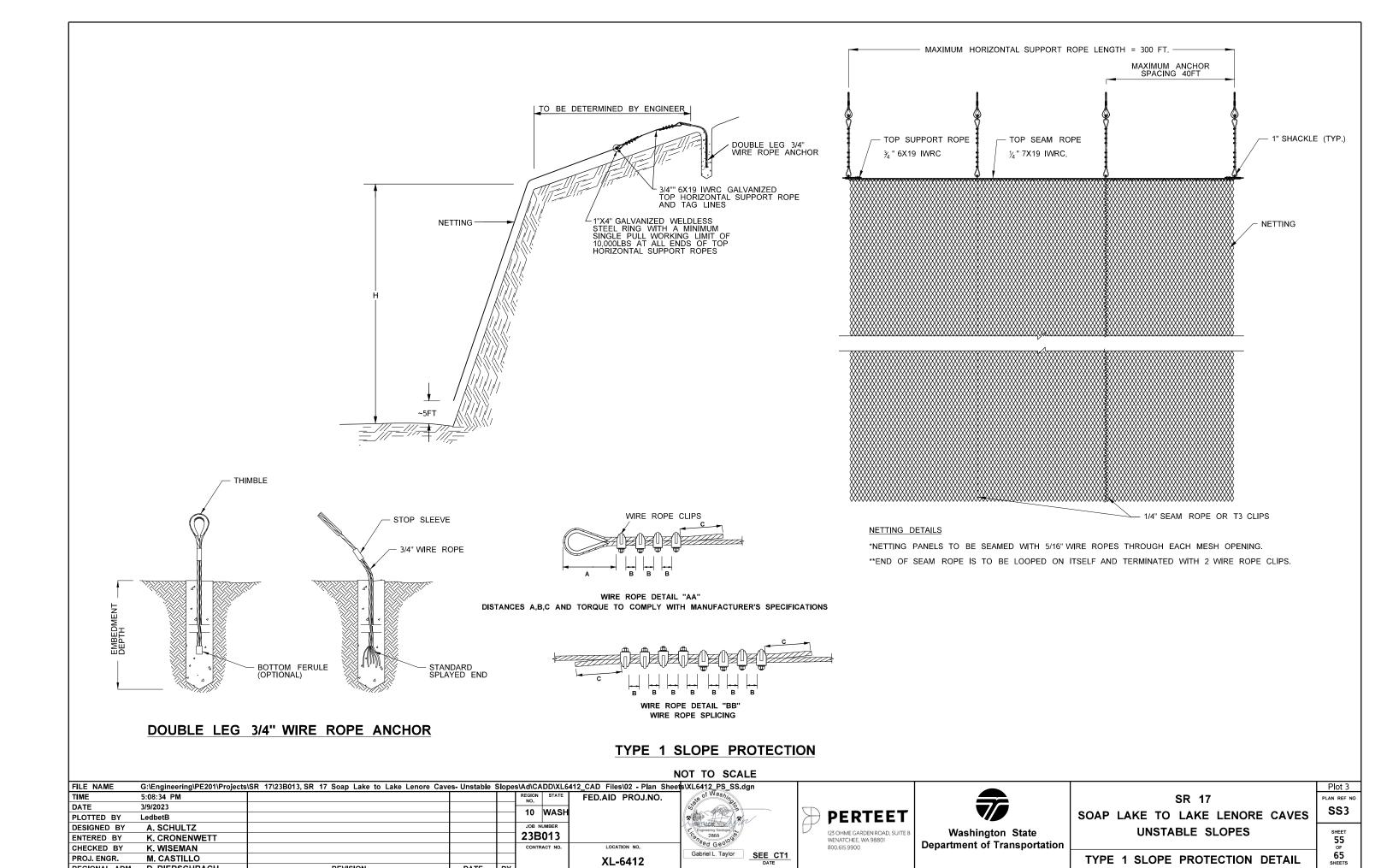
FILE NAME	G:\Engineering\PE201\Projects\SR 17\23B013, SR 17 Soap	Lake to Lake Lenore Caves- Unstable	Slope	s\Ad\CADD\XL6	5412_CAD Files\02 - Plan Shee	s\XL6412_PS_SS.dgn				Plot 1
TIME	5:08:18 PM			REGION STATE	FED.AID PROJ.NO.	AZBW 10			SR 17	PLAN REF NO
DATE	3/9/2023			10 WASH	;	Je Silling	□			SS1
PLOTTED BY	LedbetB			IU WASH		2005 P X X /	> PERTEET		SOAP LAKE TO LAKE LENORE CAVES	00.
DESIGNED BY	A. SCHULTZ			JOB NUMBER		MINITED TO SERVICE TO	123 OHME GARDEN ROAD, SUITE 8	Washington State	UNSTABLE SLOPES	SHEET
ENTERED BY	K. CRONENWETT			23B013		Engineering Geologist	WENATCHEE, WA 98801			53
CHECKED BY	K. WISEMAN			CONTRACT NO.	LOCATION NO.	nsed Geolog	800.615.9900	Department of Transportation		_ OF
PROJ. ENGR.	M. CASTILLO				XL-6412	Gabriel L. Taylor SEE CT1			TYPICAL ROCK BOLT DETAIL	65 SHEETS
REGIONAL ADM.	D. BIERSCHBACH REVI	SION DATE	BY	1	XL-0412	P.E. STAMP BOX				SHEETS



SEE SPECIAL PROVISION "PERMANENT GROUND ANCHORS" FOR ADDITIONAL INFORMATION.

#### TYPICAL TYPE 1 ROCK DOWEL INSTALLATION

FILE NAME	G:\Engineering\PE201\Projects	s\SR 17\23B013, SR 17 Soap Lake to Lake Lenore Ca	aves- Unstable	Slopes	Ad/CADD/XL6	5412_CAD Files\02 - Plan Sheet	ts\XL6412_PS_SS.dgn				Plot 2
TIME	5:08:26 PM				REGION STATE	FED.AID PROJ.NO.	of Washing			SR 17	PLAN REF NO
DATE	3/9/2023				10 WASH	1	03				SS2
PLOTTED BY	LedbetB				IU WASI	1	8	> PERTEET		SOAP LAKE TO LAKE LENORE CAVES	002
DESIGNED BY	A. SCHULTZ				JOB NUMBER	1	Engineering Geologist	123 OHME GARDEN ROAD, SUITE 8	Washington State	UNSTABLE SLOPES	SHEET
ENTERED BY	K. CRONENWETT				23B013		Ce780 2869	WENATCHEE, WA 98801	]		54
CHECKED BY	K. WISEMAN				CONTRACT NO.	LOCATION NO.	Sed Geo.	800.615.9900	Department of Transportation		OF
PROJ. ENGR.	M. CASTILLO					XL-6412	Gabriel L. Taylor SEE CT1			TYPE 1 ROCK DOWEL DETAIL	65 SHEETS
REGIONAL ADM	D BIERSCHBACH	REVISION	DATE	BY		/L-0412	DE STAMP BOY				SHEETS



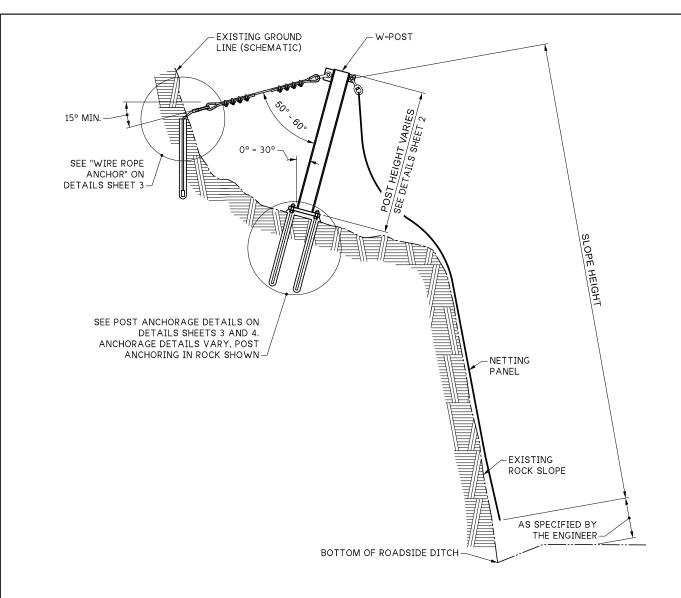
XL-6412

BY

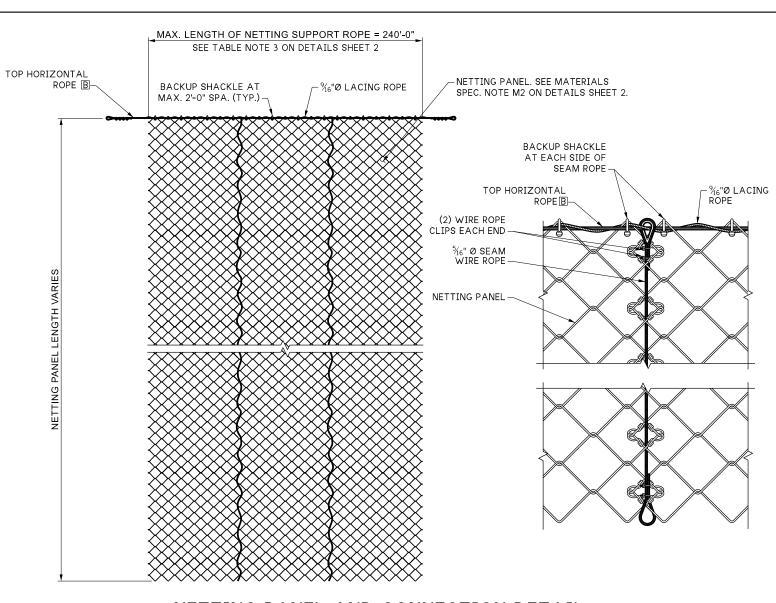
DATE

REVISION

REGIONAL ADM. D. BIERSCHBACH



TYPICAL SECTION



#### NETTING PANEL AND CONNECTION DETAIL

#### **GENERAL NOTES:**

PE STAMP BOX

- 1. ALL MATERIAL AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION DATED 2023.
- 2. THIS STRUCTURE HAS BEEN DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS OF THE ASCE/SEI 7-05 MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES, 2005.
- 3. NETTING PANELS SHALL BE SEAMED WITH WIRE ROPES THROUGH EACH MESH OPENING. ENDS OF SEAM ROPE SHALL BE LOOPED ONTO ITSELF AND SECURED WITH TWO (2) WIRE ROPE CLIPS.
- 4. ULTIMATE ROPE ANCHOR CAPACITY PER TABLE ON DETAILS SHEET 2.
- 5. ALL WIRE ROPE LOOPS SHALL INCLUDE A STANDARD WEIGHT THIMBLE.
- 6. BACK-UP SHACKLES CONNECTING ROPE® TO NETTING PANELS SHALL BE SPACED AT 2'-0" MAXIMUM AND SHALL BE SIZED TO ENGAGE ROPE  $\mathbb{B}$ , THE  $\%_6$ "Ø LACING ROPE, AND THE NETTING PANEL.
- 7. THE FALLING ROCK LOAD USED IN THE DESIGN IS EQUAL TO 1.7 KIP/FT APPLIED OVER THE MIDDLE 4 FT OF THE NETTING SUPPORT ROPE B AND CORRESPONDS TO 100 FT-TON MAXIMUM IMPACT ENERGY.
- 8. THE DESIGN ICE LOAD ON THE NETTING PANEL IS 5.7 PSF.

ᇤ	FILE PATH / NAME	c:\users\deboejak\pw_wsdot\d0546571\Type 2 Sk	ope Protection Details 1 of 6.dgn			REGION NO.	STATE	
뿛	FILE PATH / NAME BRIDGE DES. ENG.	Leland, A						4
ij	BRIDGE PROJ. ENG.	Rosa, M				10	WASH	-
ĕ	SUPERVISOR DESIGNED BY	Zeldenrust, R				JOB	NUMBER	•
8	DESIGNED BY	Swett, G						
	CHECKED BY	Miiler, W						
	ENTERED BY	Churchill, C				CONT	RACT NO.	
	PRELIM. PLAN BY							
SS	ARCH. / SPEC.	Swett, G	REVISION	DATE	BY			
	PLOT DATE: 3/10/20	23 PLOT TIME: 9:59:59 AM	PLOTTED BY: deboejak					





SR 17 SOAP LAKE TO LAKE LENORE CAVES UNSTABLE SLOPES

> TYPE 2 SLOPE PROTECTION DETAILS 1 OF 6

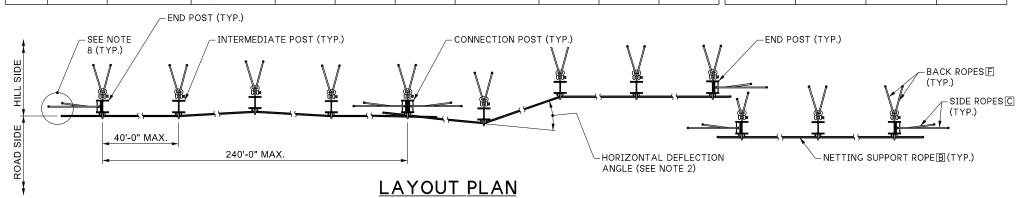
SHEET

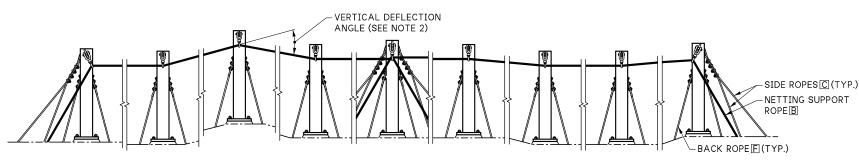
PLAN REF NO

SS4

#### END AND CONNECTION POSTS END & CONNECTION POSTS $^{1.3}$ POST ANCHORAGE NETTING SUPPORT ROPE CONNECTION SIDE ROPE CONNECTION SLOPE HEIGH. WELD Ab ROPE B 3 WELDC **HEIGHT** SIZE PLATE A WELD Aa PLATEB ' WELDB SWIVEL B ROPEC PLATEC W 8 x 40 7/16 3/4" 100' 12' W 8 x 40 $\frac{3}{4} \times 16 \times 1'-4$ 1/4 $1 \times 4 \times 0' - 6$ 11/4" 1/2 $\frac{1}{2} \times 4 \times 0'-7$ 1¾" 5∕16 20' W 8 × 48 W 8 x 48 $\frac{3}{4} \times 4\frac{1}{2} \times 0^{1}-7$ $1 \times 16 \times 1'-4$ %6 $\frac{3}{4} \times 4\frac{1}{2} \times 0'-7$ 12' W 8 x 48 $1 \times 16 \times 1'-4$ 7/16 200' 1/4 $1\frac{1}{2} \times 4\frac{3}{8} \times 0^{1}$ -6 11/2" $\frac{\%}{16}$ $1\frac{1}{4}$ 21/8" 5∕16 20' W 10 x 49 $\frac{3}{4} \times 4\frac{1}{2} \times 0'-8\frac{3}{4}$ 1 x 18 x 1'-6 W 8 x 58 $1\frac{1}{4} \times 16 \times 1'-4$ $\frac{7}{8} \times 5 \times 0'-7$ W $10 \times 54$ 1¼ × 18 × 1'-6 23/8" $\frac{7}{8} \times 5 \times 0' - 8\frac{3}{4}$ 300 12' 5∕16 $1\frac{1}{4} \times 7\frac{1}{2} \times 0^{1} - 9$ $\frac{9}{16}$ 11/2 23/3" 20 $W 10 \times 60$ $1\frac{1}{4} \times 18 \times 1'-6$ $\frac{7}{8} \times 5 \times 0' - 8\frac{3}{4}$

				INTERM	MEDIATE	POSTS					ULTIMATE ROPE ANCHOR CAPACITY 6,7				
SLOPE	END & CONN	IECTION POSTS 1,2	POST	ANCHORAGE			NETTING SUPP	ORT ROPE CO	NNECTION		SLOPE	(	CAPACITY (KIP	3)	
HEIGHT	HEIGHT	SIZE	PLATED	WELDDa	WELDDb	ROPEB <sup>3</sup>	PLATEE	HOLEE (DIA.)	WELDE	SWIVELE <sup>5</sup>	DISTANCE	SUPPORT ROPE B	SIDE ROPE C (PER ROPE)	BACK ROPE (PER ROPE)	
	6'														
100'	12'	W 8 x 35	$\frac{3}{4} \times 16 \times 1'-4$	5∕16	<b>У</b> 4	3∕4"	½ × 3 × 0'-3½	1"	<b>¾</b> 6	7∕8	100'	58	32	18	
	20'														
	6'		1 × 16 × 1'-4												
200'	12'	W 8 x 35	1 × 16 × 1'-4	%6	1/4	1"	$\frac{3}{4} \times 3\frac{1}{2} \times 0'-4\frac{1}{2}$	11/4"	7∕16	1	200'	103	57	27	
	20'		1 × 18 × 1'-6												
	6'		$1\frac{1}{4} \times 16 \times 1'-4$												
300'	12'	W 8 × 48	1½ × 18 × 1'-6	¾	<b>¾</b> 6	11/8"	1 × 4 × 0'-5	1½"	1/2	11/4	300'	130	72	37	
	20'		1½ × 18 × 1'-6												





#### LAYOUT ELEVATION

FILE PATH / NAME c:\users\deboejak\pw\_wsdot\d0546571\Type 2 Slope Protection Details 2 of 6.dqn BRIDGE DES. ENG. Leland, A WASH 10 BRIDGE PROJ. ENG. Rosa, M SUPERVISOR Zeldenrust R DESIGNED BY Swett, G CHECKED BY Miller, W FNTFRFD BY Churchill, C PRELIM. PLAN BY ARCH. / SPEC. REVISION DATE Swett G PLOT DATE: 3/10/2023



#### SR 17 SOAP LAKE TO LAKE LENORE CAVES UNSTABLE SLOPES

TYPE 2 SLOPE PROTECTION

SS5 SHEET OF

PLAN REF NO

PLOT TIME: 10:00:05 AM

PE STAMP BOX

DETAILS 2 OF 6

PLOTTED BY: deboejak

5. ALL SWIVELS SHALL BE JAW END TYPE.

4. BEVEL THE LOWER CORNER OF PLATE BY 13/4" (SEE DETAILS ON DETAILS SHEET 5).

SUPPORT ROPE SHALL BE TERMINATED AT A CONNECTION OR END POST.

2. POSTS SHALL BE ALIGNED WITH 15° MAXIMUM HORIZONTAL DEFLECTION ANGLE AND 30°

3. MAXIMUM NETTING SUPPORT ROPE LENGTH - 240 FT. (I.E. 6 POST SPACINGS AT 40 FT.). NETTING

- 6. FOR ROPE DOUBLE ANCHORS WITH INDIVIDUAL TAG LINES MAY BE USED AS AN ALTERNATIVE TO A SINGLE ANCHOR IN ORDER TO ACHIEVE THE REQUIRED CAPACITY. THE ANGLE BETWEEN A TAG LINE AND THE AXIS OF THE CORRESPONDING ANCHOR SHALL BE LESS THAN 30°. ANCHORS AND TAG LINES SHALL HAVE A MINIMUM OF 60% OF THE REQUIRED CAPACITY FOR A SINGLE ANCHOR.
- 7. CAPACITY SHALL BE OBTAINED BY PROOF TESTING. SEE THE SPECIAL PROVISIONS.
- 8. MINIMUM SPACING BETWEEN ANCHORS IS EQUAL TO HALF THE EMBEDMENT LENGTH OF ROPE® ANCHOR.

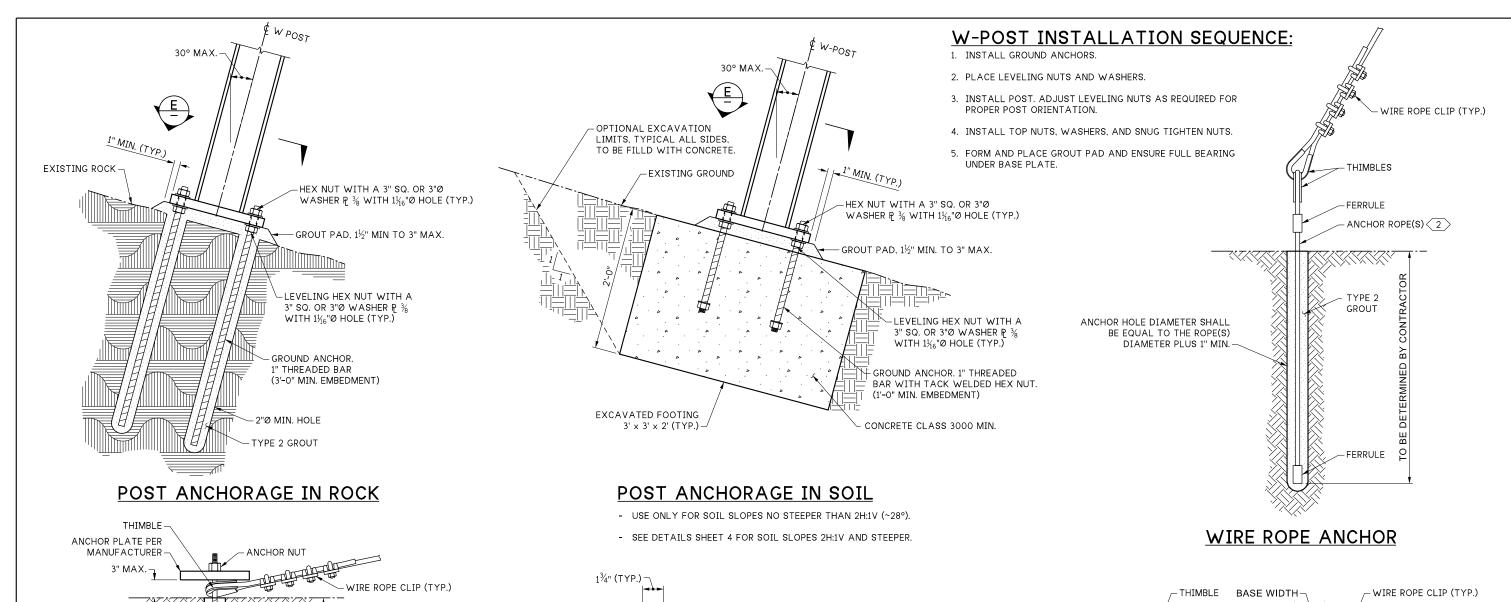
#### MATERIAL SPECIFICATION NOTES:

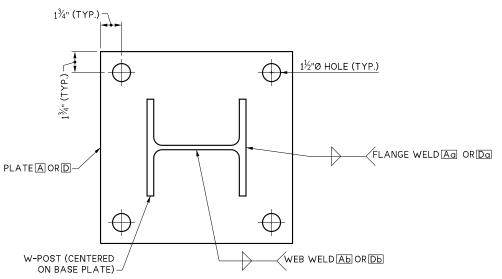
TABLE NOTES:

MAXIMUM SPACING BETWEEN POSTS - 40 FT.

MAXIMUM VERTICAL DEFLECTION ANGLE.

- SEE SPECIAL PROVISIONS FOR TYPE 2 SLOPE PROTECTION SYSTEM NETTING REQUIREMENTS.
- THIMBLES AND WIRE ROPE CLIPS SHALL CONFORM TO SECTION 9-16.4(4).
- ALL WIRE ROPE SHALL BE INDEPENDENT WIRE ROPE CLASS (IWRC), EIP STEEL, 6X19 CLASS, MEETING ASTM A1023 AND SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A603 CLASS A. MATERIAL ACCEPTANCE SHALL BE BASED ON SECTION 9-16.4(3). SEAM ROPE MAY BE IWRC, EIP STEEL, 7X19 CLASS AND GALVANIZED AS SPECIFIED.
- M4. THREADED BAR GROUND ANCHORS SHALL CONFORM TO SECTION 9-16.4(6), GRADE 60 OR
- HOLLOW-CORE THREADED BAR ANCHORS SHALL CONFORM TO 9-16.4(6) EXCEPT STEEL TUBING MAY CONFORM TO ASTM A519 OR ASTM A513.
- M6. STEEL REINFORCING BARS SHALL CONFORM TO SECTION 9-07.2.
  - THREADED BAR GROUND ANCHORS, HOLLOW-CORE THREADED BARS, AND STEEL REINFORCING BARS SHALL BE EPOXY-COATED IN ACCORDANCE WITH SECTIONS 6-02.3(24)H AND 9-07.3 OR SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153 CLASS A OR ASTM A767 CLASS 1, CHROMATE TREATMENT NOT REQUIRED.
- COUPLERS AND NUTS FOR THE THREADED BAR GROUND ANCHORS AND HOLLOW-CORE THREADED BARS SHALL PROVIDE 100 PERCENT OF THE GUARANTEED MINIMUM TENSILE
- JAW END SWIVELS SHALL BE GALVANIZED AFTER FABRICATION AND SHALL MEET THE PERFORMANCE REQUIREMENTS OF FEDERAL SPECIFICATION RR-C-271D TYPE VII, CLASS 3.
- M10. BOLT-TYPE ANCHOR SHACKLES SHALL BE GALVANIZED AFTER FABRICATION AND SHALL MEET THE PERFORMANCE REQUIREMENTS OF FEDERAL SPECIFICATION RR-C-271D TYPE IVA, GRADE A, CLASS 3. BACK-UP SHACKLES SHALL BE BOLT-TYPE OR MAY BE ROUND PIN ANCHOR TYPE AND SHALL MEET THE PERFORMANCE REQUIREMENTS OF FEDERAL SPECIFICATION RR-C-271G, TYPE IVB, GRADE A, CLASS 1 AND SHALL BE GALVANIZED.
- M11. STEEL POSTS SHALL CONFORM TO ASTM A992 OR ASTM A572 GR 50. BARS AND PLATES WELDED TO STEEL POSTS SHALL CONFORM TO ASTM A572 GR 50. NUTS SHALL CONFORM TO EITHER ASTM A563 GR B. HEXAGONAL. OR SECTION 9-07.11. WASHERS SHALL CONFORM TO ASTM F436, EXCEPT THAT PLATE WASHERS SHALL CONFORM TO ASTM A36 OR ASTM A572.
- M12. UNLESS OTHERWISE NOTED, POSTS, HARDWARE, BARS AND PLATES SHALL BE GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH AASHTO M 111, AASHTO M 232, OR ASTM F2329 AS APPLICABLE.
- M13. CONCRETE SHALL CONFORM TO SECTION 9-16.4(6).
- M14. GROUT FOR BACK-ROPE ANCHORS AND HOLLOW-CORE THREADED BARS SHALL CONFORM TO SECTION 9-20.3(2) AND BE A PROVEN, SAND-FREE, NO-SHRINK MATERIAL CAPABLE OF DEVELOPING THE BOND AND INTERNAL STRENGTH NECESSARY FOR THE REQUIRED CAPACITY. THE USE OF EPOXY OR POLYESTER RESIN AS BONDING AGENTS IS NOT ALLOWED.
- M15. IF REQUESTED BY THE ENGINEER, SAMPLES OF GROUT AND/OR CONCRETE SHALL BE PROVIDED.





SECTION

#### -1 CLIP BASE WIDTH TURNBACK

#### WIRE ROPE CONNECTION DETAIL

- TURNBACK LENGTH AND NUMBER OF CLIPS PER MANUFACTURER'S SPECIFICATIONS TO DEVELOP WIRE ROPE CAPACITY.
- FOLLOW MANUFACTURER'S APPLICATION INSTRUCTIONS.

#### **KEY NOTES:**

- 1 FOR PLATE AND WELD SIZES, REFER TO THE TABLES ON DETAILS SHEET 2.
- ANCHOR ROPE(S) OR BAR SIZE SHALL BE ADEQUATE TO DEVELOP THE ULTIMATE ROPE ANCHOR CAPACITY LISTED IN THE TABLE ON DETAILS SHEET 2.

ᇤ	FILE PATH / NAME	c:\users\deboejak\pw_wsdot\d0546571\Type 2 Sk	ope Protection Details 3 of 6.dgn			REGION	STATE	
뿛	BRIDGE DES. ENG.	Leland, A				40		1
	BRIDGE PROJ. ENG.	Rosa, M				10	WASH	l
ĕ	SUPERVISOR	Zeldenrust, R				JOB	NUMBER	l
8	DESIGNED BY	Swett, G						l
	CHECKED BY	Miller, W						l
	ENTERED BY	Churchill, C				CONT	RACT NO.	l
	PRELIM. PLAN BY							l
SS	ARCH / SPEC	Swett G	REVISION	DATE	BY			ı





PE STAMP BOX

SR 17
SOAP LAKE TO LAKE LENORE CAVES
UNSTABLE SLOPES

PLAN REF NO

SS6

SHEET OF

PLOT DATE: 3/10/2023 PLOT TIME: 10:00:09 AM PLOTTED BY: deboejak

GROUT

**BAR ANCHOR** 

ALTERNATIVE TO WIRE ROPE ANCHOR

HOLLOW-CORE THREADED

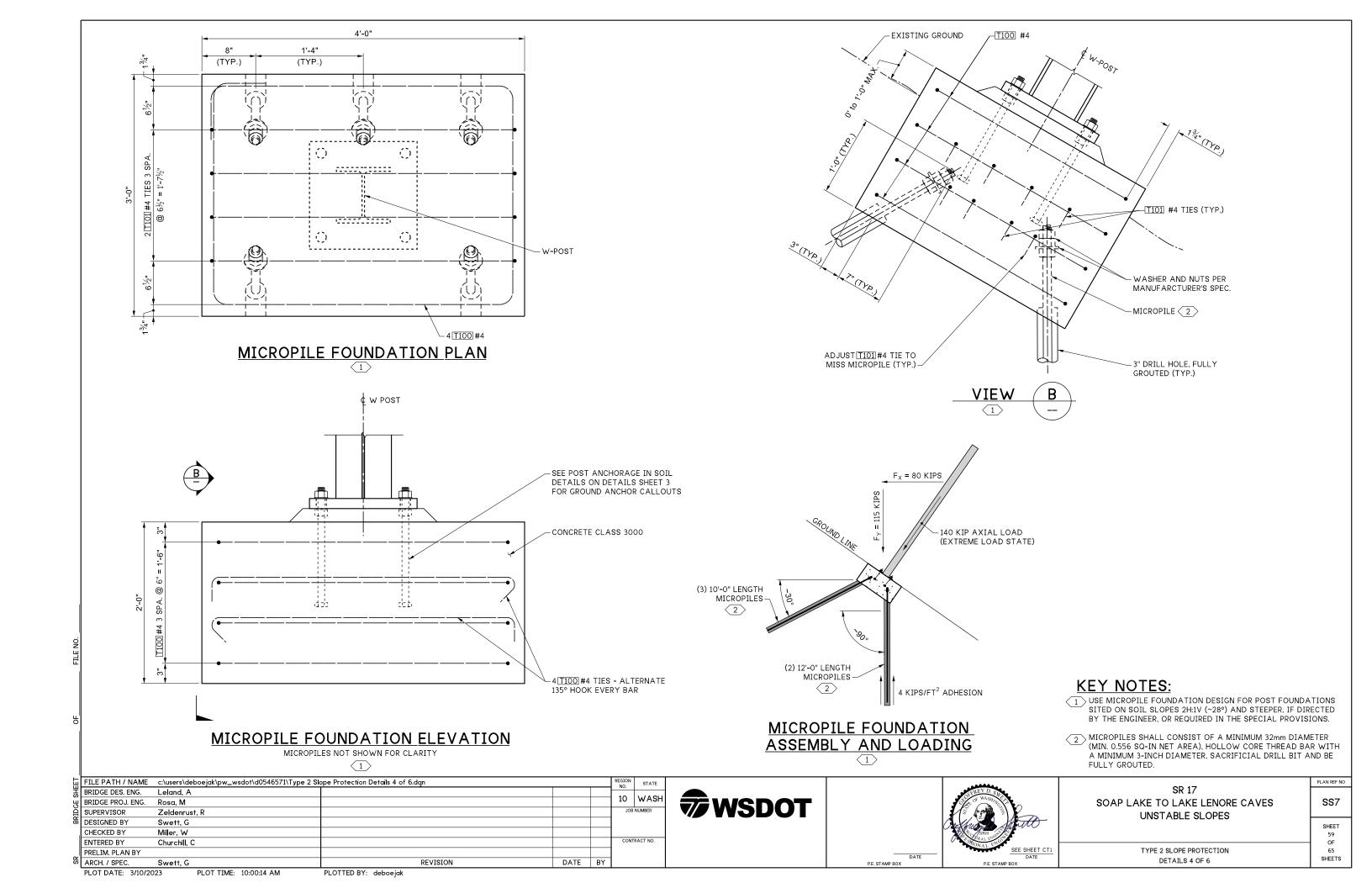
COUPLER AS SPECIFIED BY THE MANUFACTURER

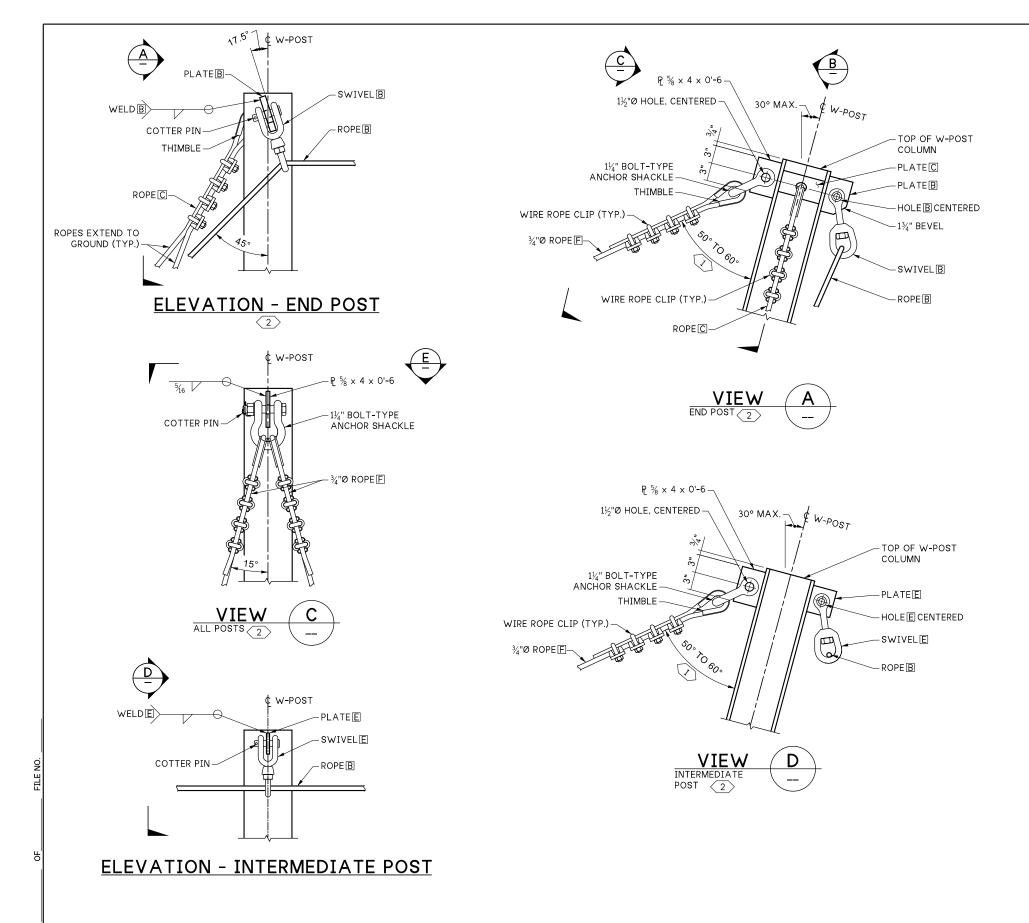
DRILL BIT SUITABLE FOR EXISTING SOIL OR ROCK TYPE

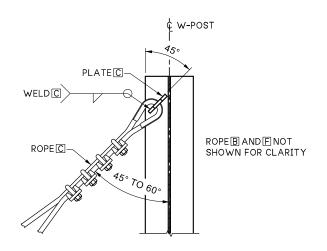
BAR ANCHOR  $\langle 2 \rangle$ 

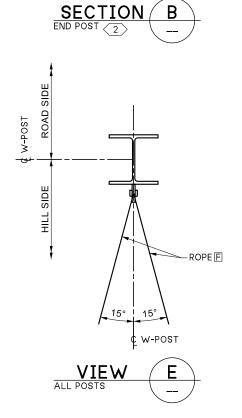
WHEN REQUIRED

TYPE 2 SLOPE PROTECTION DETAILS 3 OF 6





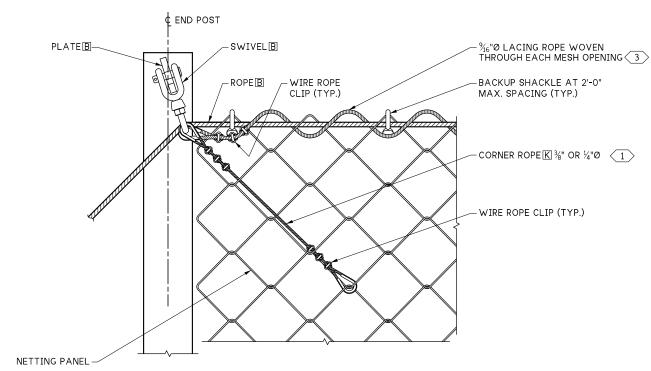




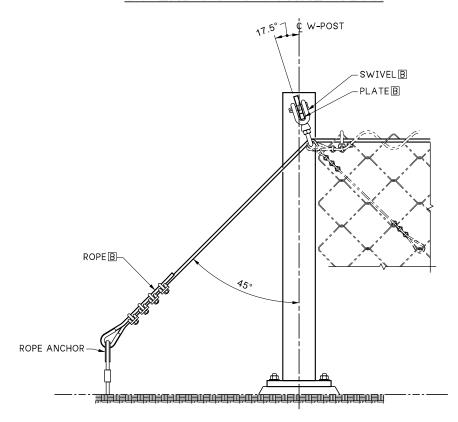
#### **KEY NOTES:**

- 1 ANGLE MUST BE THE SAME FOR BOTH ROPES E.

FILE PATH / NAME	c:\users\deboejak\pw_wsdot\d0546571\Type 2 Sk	ope Protection Details 5 of 6.dgn			REGION STATE					PLAN REF NO
罗BRIDGE DES. ENG.	Leland, A				10.			GERREY D. SW	SR 17	
BRIDGE PROJ. ENG.	Rosa, M				10 WASH	75WCDOT		Sign WASHING TO	SOAP LAKE TO LAKE LENORE CAVES	SS8
SUPERVISOR	Zeldenrust, R				JOB NUMBER	<b>WSDOT</b>		1 5 A 1 2 1	UNSTABLE SLOPES	
DESIGNED BY	Swett, G							Orefrie Jane	ONO INIDEE OF OF EO	SHEET
CHECKED BY	Miller, W							1 1 1 28 20 J.S.		60
ENTERED BY	Churchill, C				CONTRACT NO.			TONAL ENGINEER		OF OF
PRELIM. PLAN BY							DATE	SEE SHEET CT1	TYPE 2 SLOPE PROTECTION	65
ARCH. / SPEC.	Swett, G	REVISION	DATE	BY			P.E. STAMP BOX	P.E. STAMP BOX	DETAILS 5 OF 6	SHEETS
PLOT DATE: 3/10/2	2023 PLOT TIME: 10:00:18 AM	PLOTTED BY: deboejak								



#### NETTING PANEL AND LACING ROPE TO END POST CONNECTION



#### SUPPORT ROPE B VERTICAL **DEFLECTION ANGLE**

**ELEVATION VIEW** 

PLOT DATE: 3/10/2023

PLOT TIME: 10:00:22 AM

FILE PATH / NAME c:\users\deboejak\pw\_wsdot\d0546571\Type 2 Slope Protection Details 6 of 6.dgn BRIDGE DES. ENG. Leland, A 10 WASH BRIDGE PROJ. ENG. Rosa, M SUPERVISOR Zeldenrust, R DESIGNED BY Swett, G CHECKED BY Miller, W CONTRACT NO. ENTERED BY Churchill, C PRELIM. PLAN BY G ARCH. / SPEC. REVISION DATE BY Swett, G

PLOTTED BY: deboejak



PE STAMP BOX

## SR 17 SOAP LAKE TO LAKE LENORE CAVES

TYPE 2 SLOPE PROTECTION DETAILS 6 OF 6

UNSTABLE SLOPES

SHEET OF

PLAN REF NO

SS9

## LACING ROPE TO INTERMEDIATE POST CONNECTION

C INTERMEDIATE POST

-PLATEE

-SWIVELE

%6"Ø LACING ROPE WOVEN\_

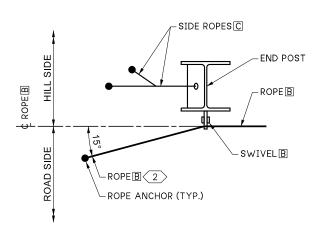
THROUGH MESH OPENING 3

WIRE ROPE

CLIP (TYP.)-

BACKUP SHACKLES AT 2'-0" MAX. SPACING (TYP.)-

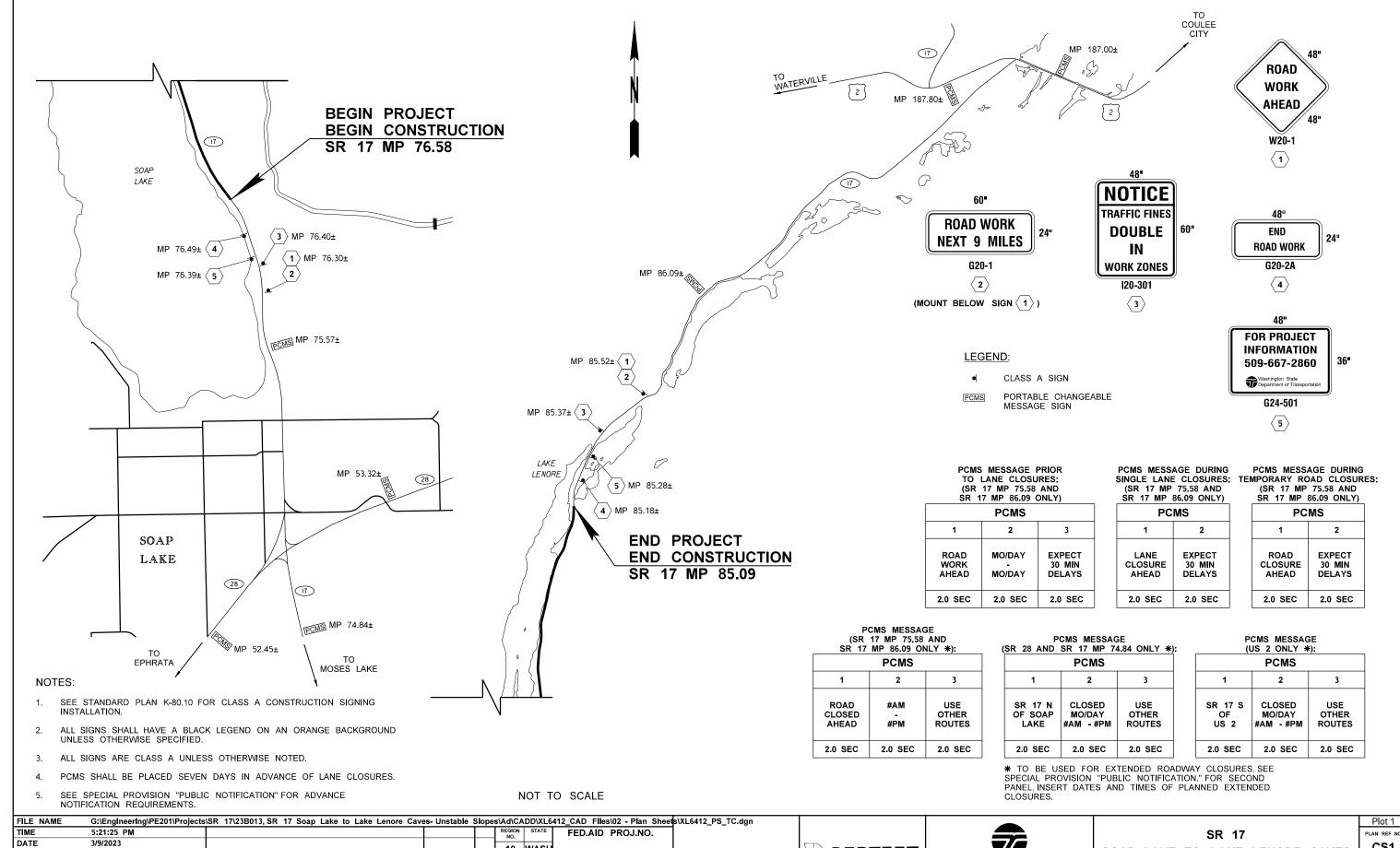
NETTING PANEL



#### SUPPORT ROPE B HORIZONTAL **DEFLECTION ANGLE**

#### **KEY NOTES:**

- 1 LOOP CORNER CABLE THROUGH SWIVEL BON THE TOP END AND THROUGH THE 5TH DIAGONAL NETTING OPENING ON THE OPPOSITE END.
- 2 UP TO 15° HORIZONTAL DEFLECTION ANGLE AT THE SWIVEL.
- 3 ATTACH LACING ROPE TO SWIVEL B.



FILE NAME	G.\Engineering\FE201\Froject	SIGN 17123B013, SK 17 Soap Lake to Lake Lenore C	aves- Unstable a	Siopesi	MUICADDIXLO	412_CAD Files\02 Fian Sheets	SIAL0412_FS_1C.ugii				PIOLI	
TIME	5:21:25 PM				REGION STATE	FED.AID PROJ.NO.				SR 17	PLAN REF NO	0
DATE	3/9/2023				10 WASH						CS1	
PLOTTED BY	LedbetB				10 WASH			PERTEET		SOAP LAKE TO LAKE LENORE CAVES		
DESIGNED BY	A. SCHULTZ				JOB NUMBER			123 OHME GARDEN ROAD, SUITE 8	Washington State	UNSTABLE SLOPES	SHEET	
ENTERED BY	K. CRONENWETT				23B013			WENATCHEE WA 98801	3		62	
CHECKED BY	K. WISEMAN				CONTRACT NO.	LOCATION NO.		800.615.9900	Department of Transportation		OF	
PROJ. ENGR.	M. CASTILLO					XL-6412	DATE			CONSTRUCTION SIGNING PLAN	65 SHEETS	
REGIONAL ADM.	D. BIERSCHBACH	REVISION	DATE	BY		XL 0412	P.E. STAMP BOX				SILETO	

(APPLICABLE TO ALL TRAFFIC CONTROL PLAN SHEETS)

- 1. ALL SIGNS ARE CLASS B UNLESS OTHERWISE NOTED
- 2. ALL SIGNS SHALL HAVE A BLACK LEGEND ON AN ORANGE BACKGROUND UNLESS OTHERWISE SPECIFIED.
- 3. CONTRACTOR SHALL PLACE "MOTORCYCLES USE EXTREME CAUTION" (W21-1701) CLASS B SIGNS IN ADVANCE OF ALL ABRUPT EDGES, GROOVED PAVEMENT, UNTREATED SURFACES, OR OTHER IRREGULAR PAVEMENT SURFACES. OTHER CLASS B WARNING SIGNS SUCH AS BUMP, ABRUPT PAVEMENT EDGE, GROOVED PAVEMENT, LOOSE GRAVEL, ETC. AS REQUIRED, SHALL BE PLACED SEQUENTIALLY WITH W21-1701 IN ACCORDANCE WITH THE WSDOT AMENDMENTS TO THE MUTCD.
- 4. TEMPORARY TRAFFIC CONTROL DEVICES SHALL BE EXTENDED TO A POINT WHERE THEY ARE VISIBLE TO APPROACHING TRAFFIC.
- 5. ADDITIONAL PCMS BOARDS SHALL BE PLACED AT THE DISCRETION OF THE ENGINEER.
- 6. WORK ZONE SHALL BE LIMITED TO 1.5 MILES IN LENGTH UNLESS OTHERWISE APPROVED BY THE ENGINEER.
- NO MORE THAN ONE TRAFFIC CONTROL SET UP WILL BE ALLOWED AT ANY ONE TIME, UNLESS OTHERWISE APPROVED BY THE ENGINEER.

LEGEND:											
AFAD	AUTOMATED FLAGGER ASSISTANCE DEVICE										
	TEMPORARY TRAFFIC CONTROL DEVICES										
8	TRAFFIC SAFETY DRUM										
И	TEMPORARY SIGN LOCATION										
<b>→</b>	PROTECTIVE VEHICLE W/ WARNING BEACON										

				BUFFE	R DA	ATA							
LONGITUDINAL BUFFER SPACE = B													
SPEED (MPH)		25	30 35		40	45	50	55	60	65	70		
LENGTH (feet)		155	200	250	305	360	425	495	570	645	730		
TRANSPO	ORTAE	BLE A	TTEN	UATO	R RC	LL AI	HEAD	DIST	ANCE	= R			
		_E WEI 2,000 lb				HOST VEHICLE WEIGHT > 22,000 lbs.							
< 45 MPH	45-55	MPH	> !	55 <b>M</b> PH	<	45 MP	н	45-55 N	IPH	> 55 MPH			
100'	12	23'		172'		74'		100'		150'			
	PRC	TECT	VE V	EHICL	.E (W	ORK	VEHIC	:LE) =	R				
		NO	SPEC	IFIED [	DISTAN	CE REC	QUIRED						

SIGN SPACING	= X (1)	
RURAL HIGHWAYS	60 / 65 MPH	800'±
RURAL ROADS	45 / 55 MPH	500' ±
RURAL ROADS & URBAN ARTERIALS	35 / 40 MPH	350' ±
RURAL ROADS, URBAN ARTERIALS, RESIDENTIAL & BUSINESS DISTRICTS	25 / 30 MPH	200'± (2)
URBAN STREETS	25 MPH OR LESS	100' ± (2)
(1) ALL SPACING MAY BE ADJUSTED TO INTERSECTIONS AND DRIVEWAYS.	ACCOMMODATE	
(2) THIS SPACING MAY BE REDUCED IN	URBAN AREAS TO	FIT

ROADWAY CONDITIONS.

CHANNELIZATION DEVICE SPACING (FEET)										
MPH	TAPER	TANGENT								
50/65	10 TO 20	80								
35/45	10 TO 20	60								
25/30	10 TO 20	40								

	MINII	MUM	LANE	CLOSU	JRE T	APER	LENG1	rH = L	_ (feet)	)					
LANE	Posted Speed (mph)														
WIDTH (feet)	25	30	35	40	45	50	55	60	65	70					
10	105	150	205	270	450	500	550	•	-	-					
11	115	165	225	295	495	550	605	660	-	-					
12	125	180	245	320	540	600	660	720	780	840					

	MIN	MUMIN	SHOU	JLDER	TAPE	R LEN	NGTH	= L/3	(feet)						
SHOULDER	Posted Speed (mph)														
WIDTH (feet)	25	30	35	40	45	50	55	60	65	70					
8'	40	40	60	90	120	130	150	160	170	190					
10'	40	60	90	90	150	170	190	200	220	240					
ı	USE A MINIMUM 3 DEVICES TAPER FOR SHOULDER LESS THAN 8'.														

FILE NAME	G:\Engineering\PE201\Projects	SR 17\23B013, SR 17 Soap Lake to Lake Lenore Cave	es- Unstable	Slopes\/	Ad\CADD\XL6	412_CAD Files\02 - Plan Sheet	s\XL6412_PS_TC.dgn			Plot 2
TIME	5:21:24 PM			F	REGION STATE	FED.AID PROJ.NO.			SR 17	PLAN REF NO
DATE	3/9/2023				10 WASH					TR1
PLOTTED BY	LedbetB				10 WASH				SOAP LAKE TO LAKE LENORE CAVES	1111
DESIGNED BY	A. SCHULTZ				JOB NUMBER			Washington State	UNSTABLE SLOPES	SHEET
ENTERED BY	K. CRONENWETT				23B013			J		63
CHECKED BY	K. WISEMAN				CONTRACT NO.	LOCATION NO.		Department of Transportation		OF OF
PROJ. ENGR.	M. CASTILLO					XL-6412	DATE		TRAFFIC CONTROL REFERENCE	65 SHEETS
REGIONAL ADM.	D. BIERSCHBACH	REVISION	DATE	BY		/L 0412	P.E. STAMP BOX			02210

